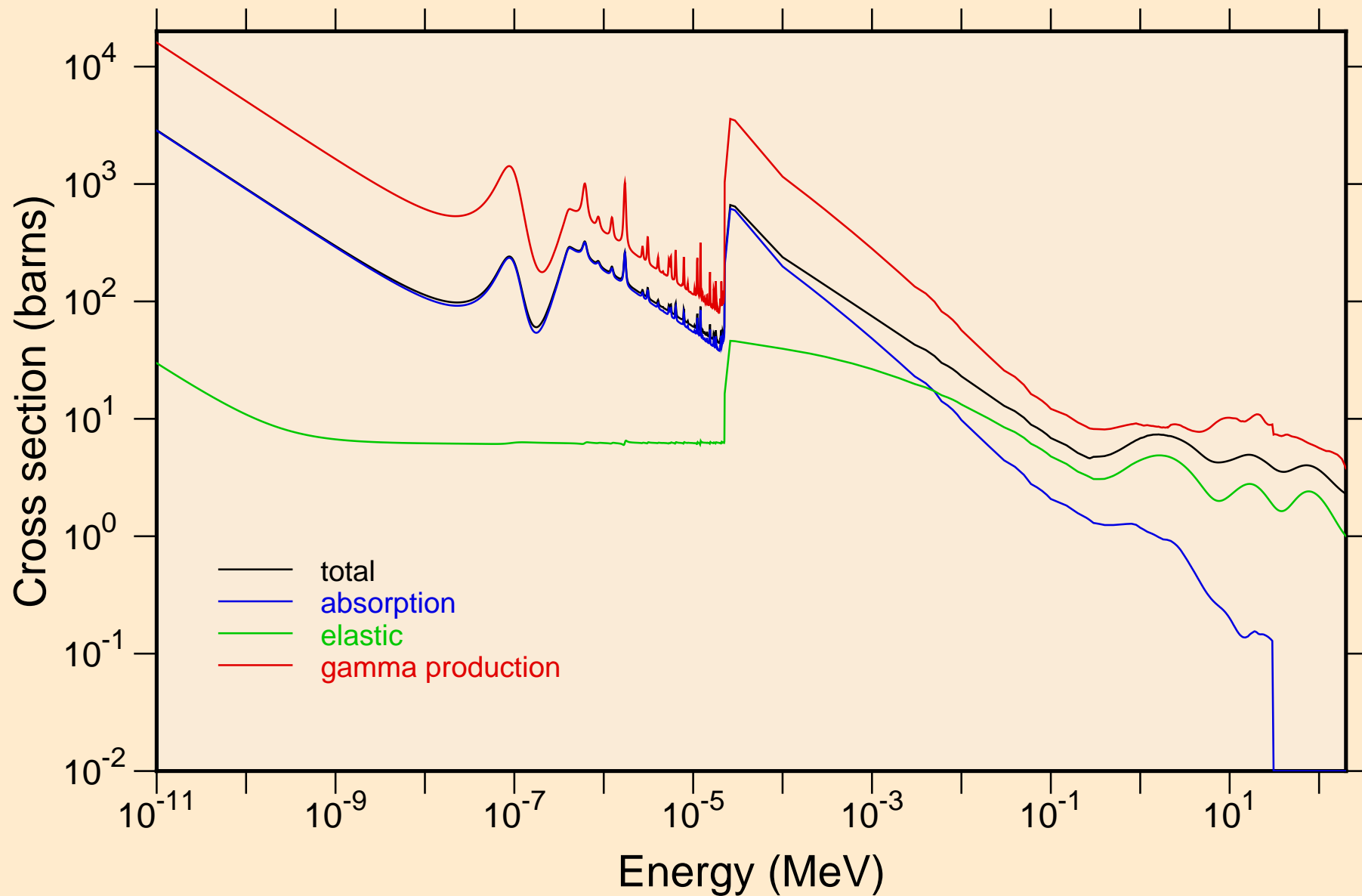
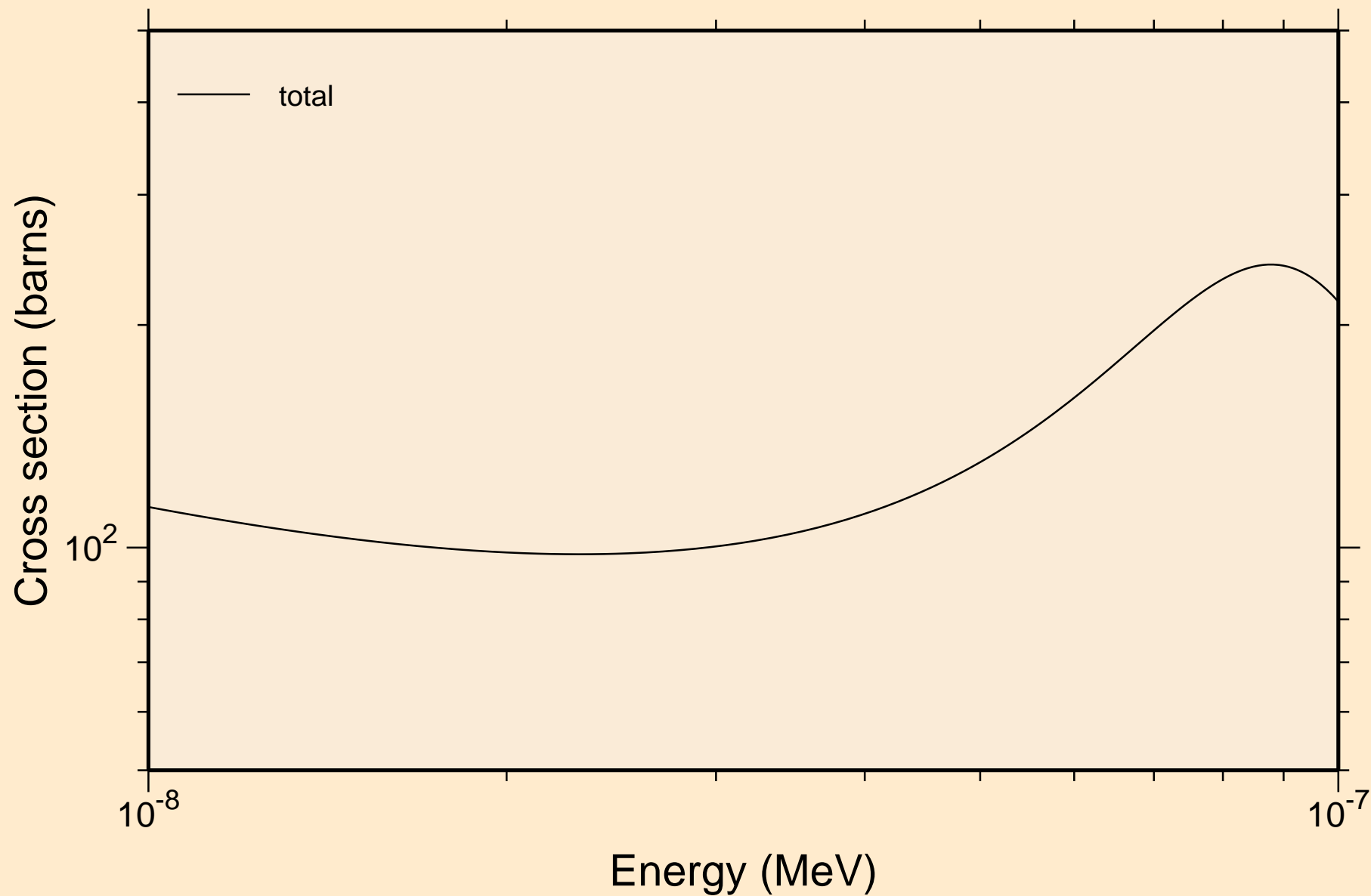


# EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

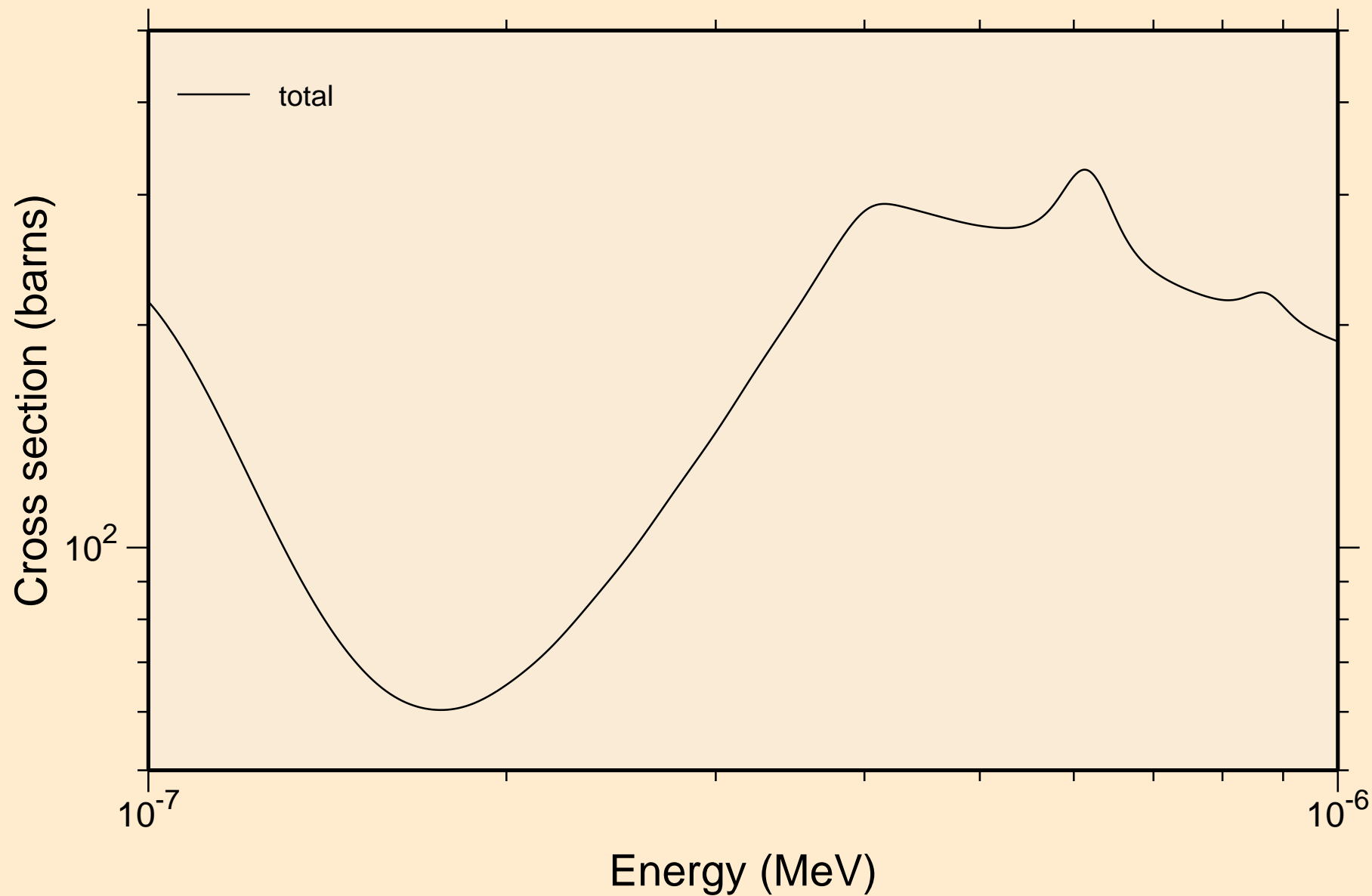
## Principal cross sections



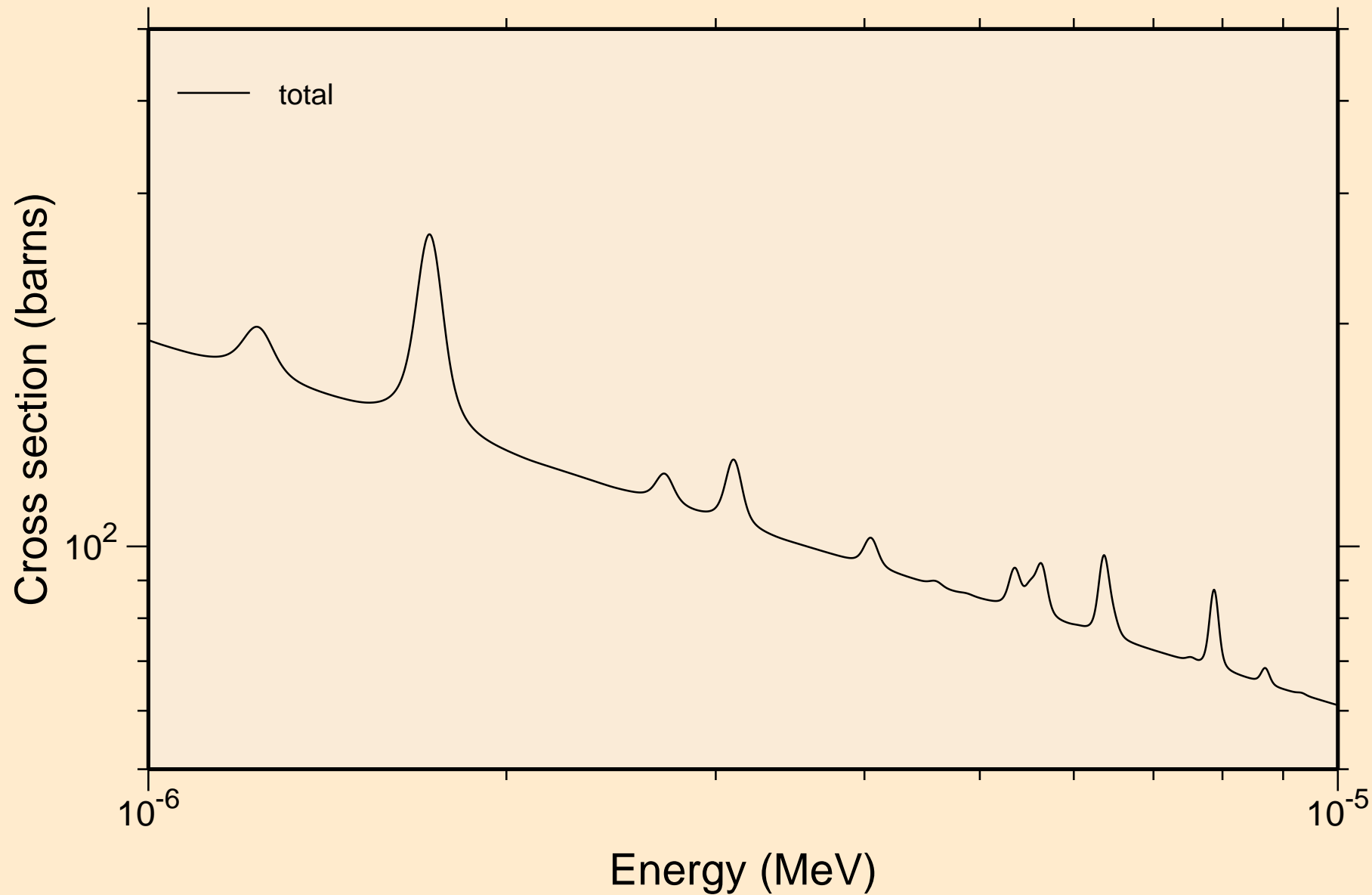
EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



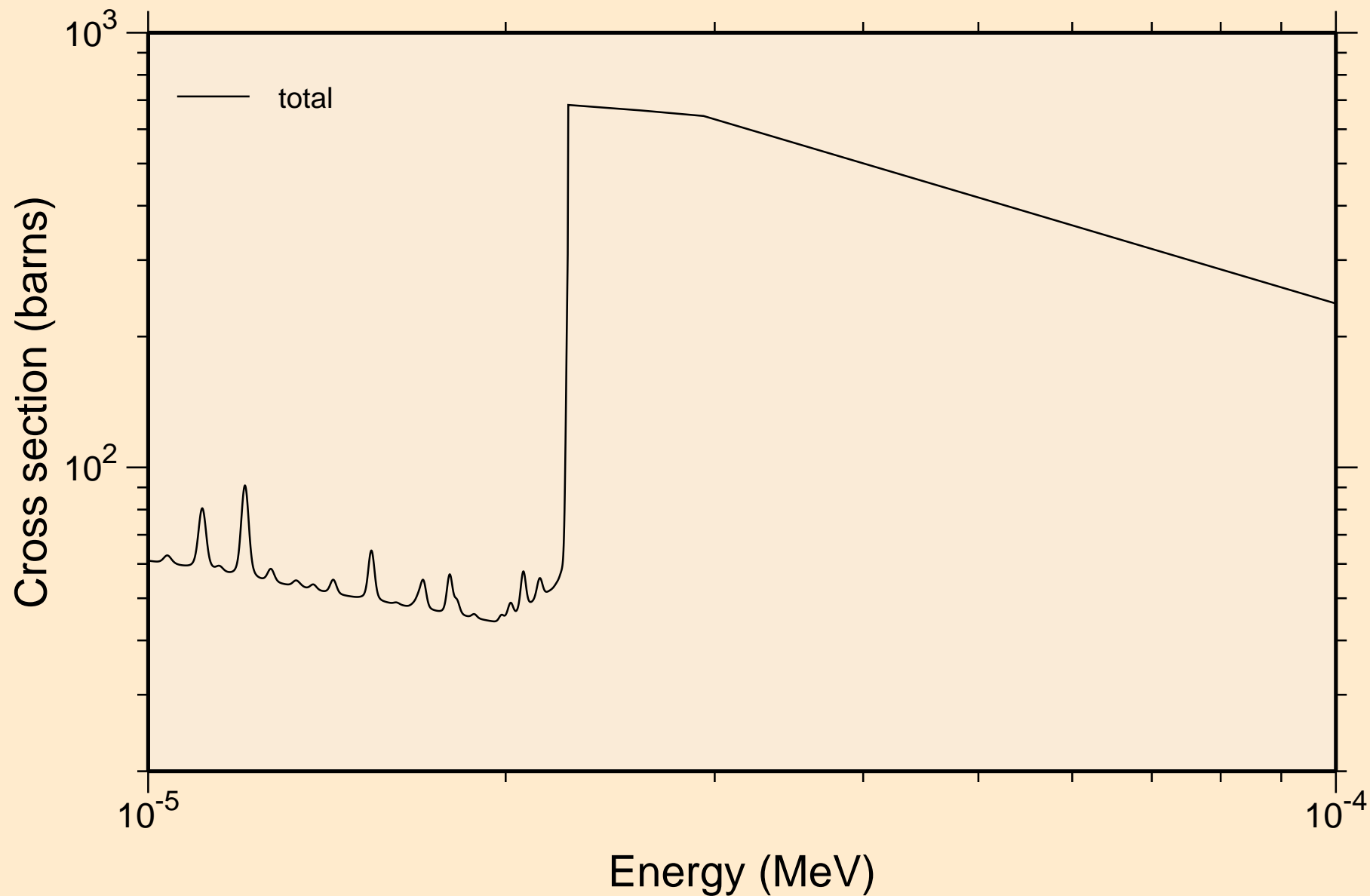
EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



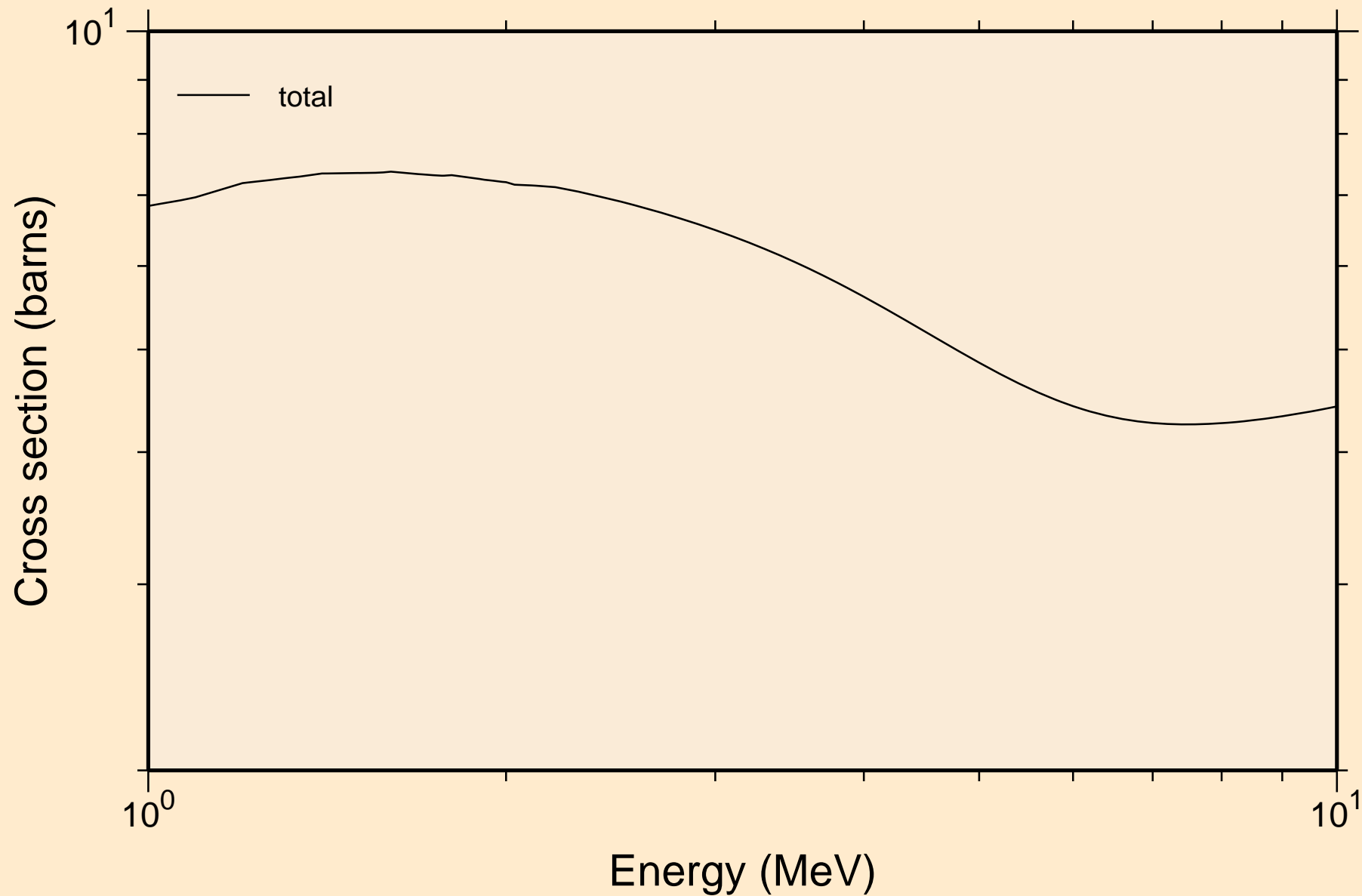
EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



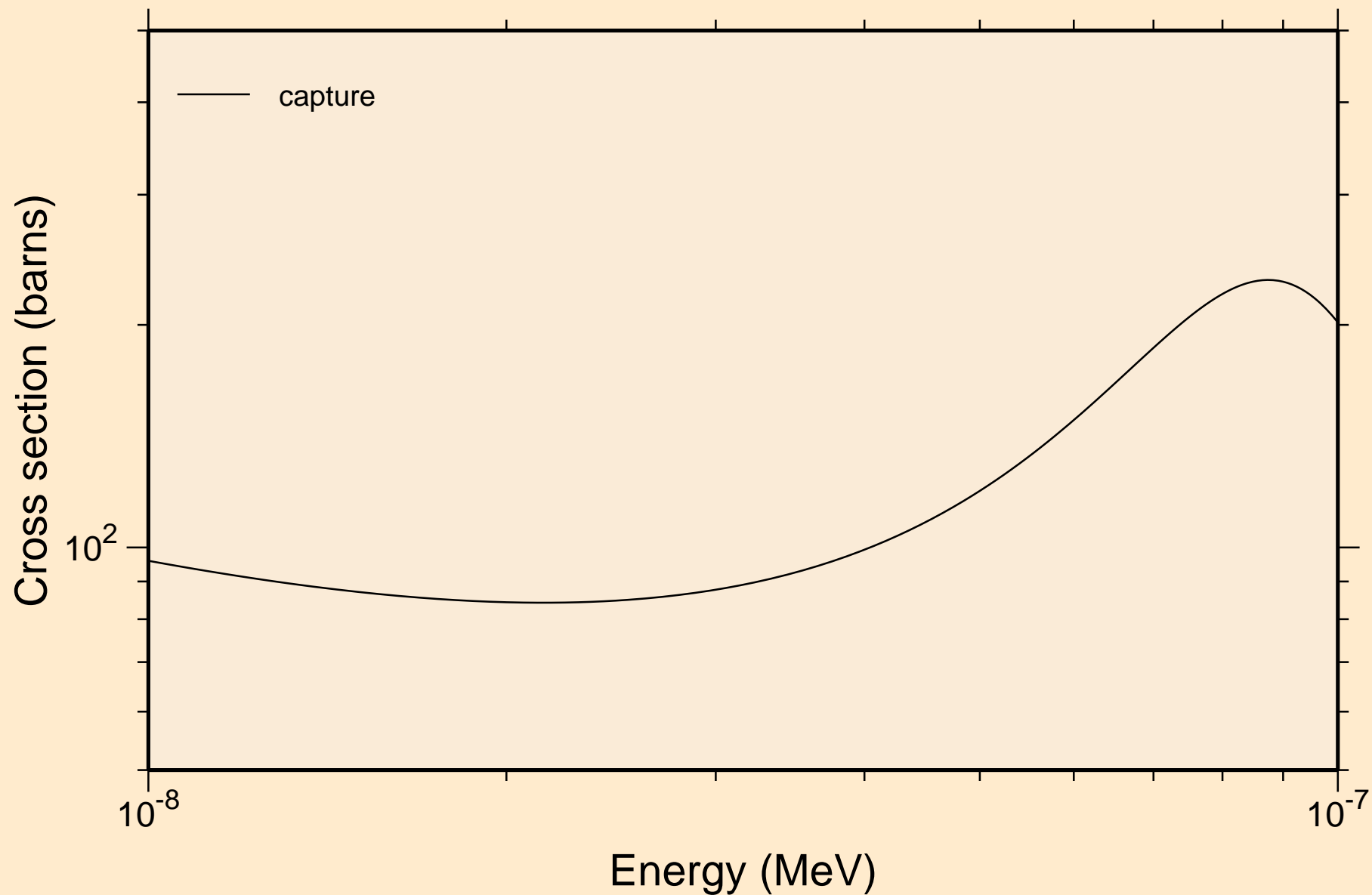
EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



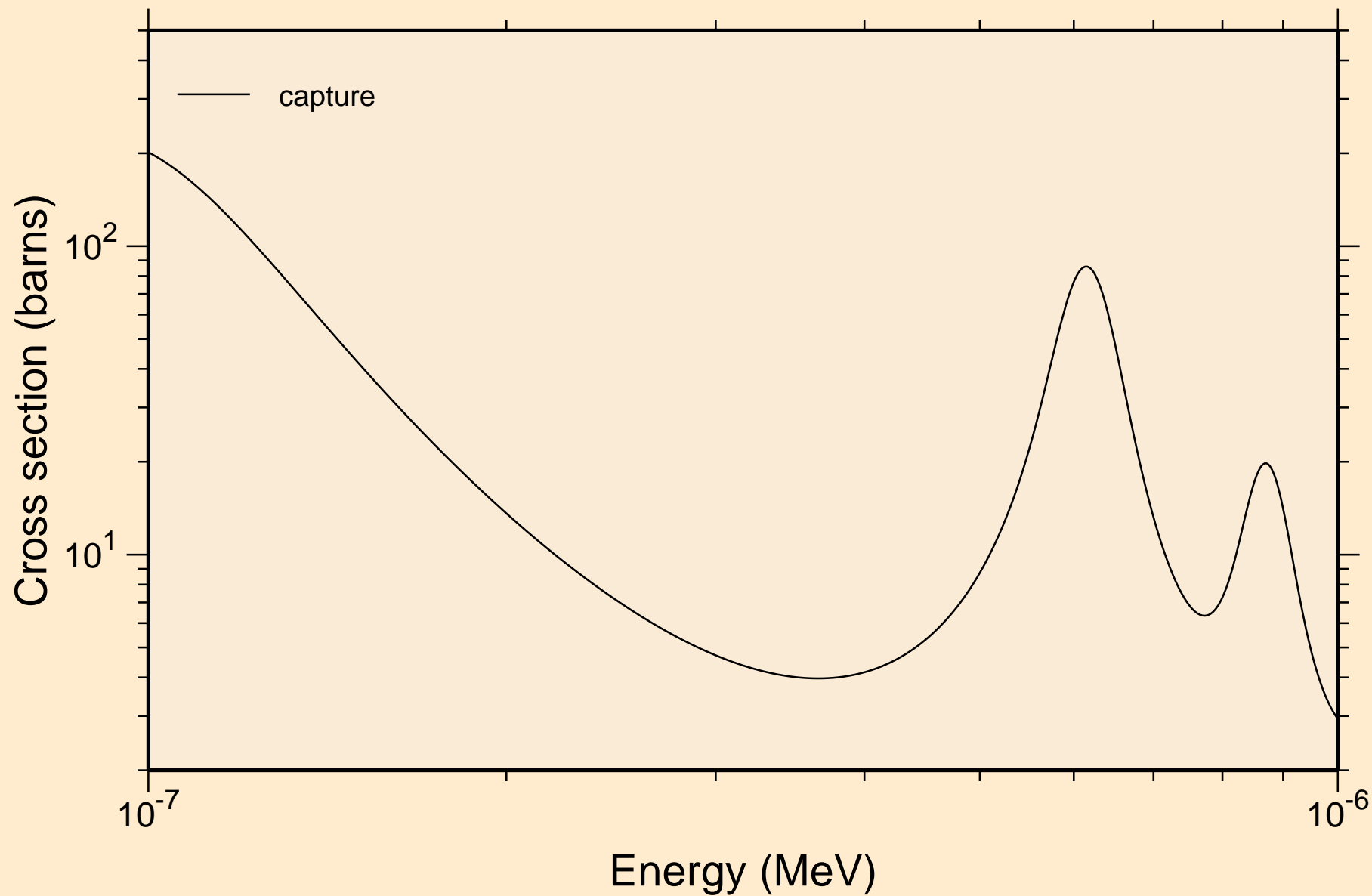
EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections

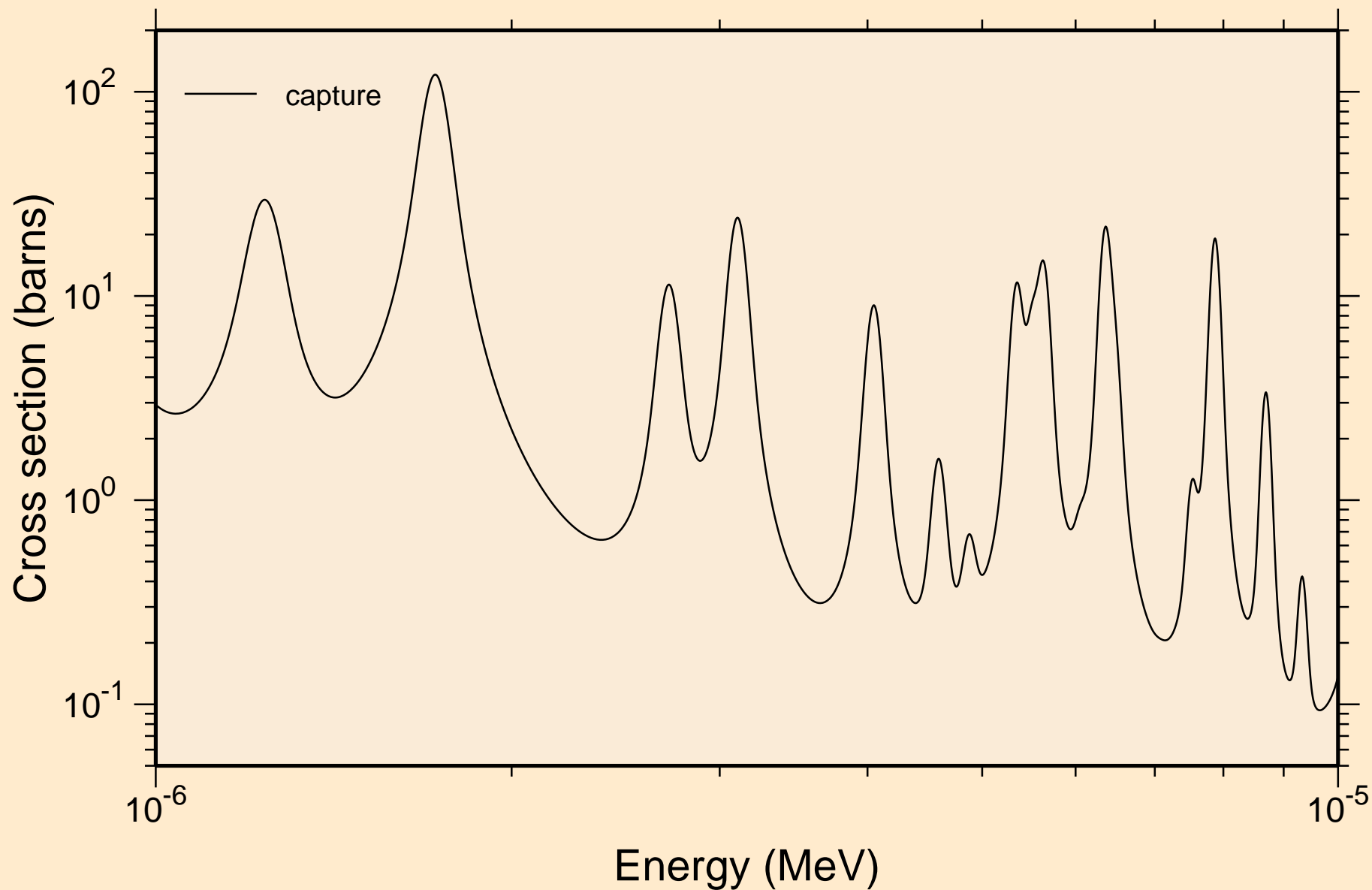


EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections

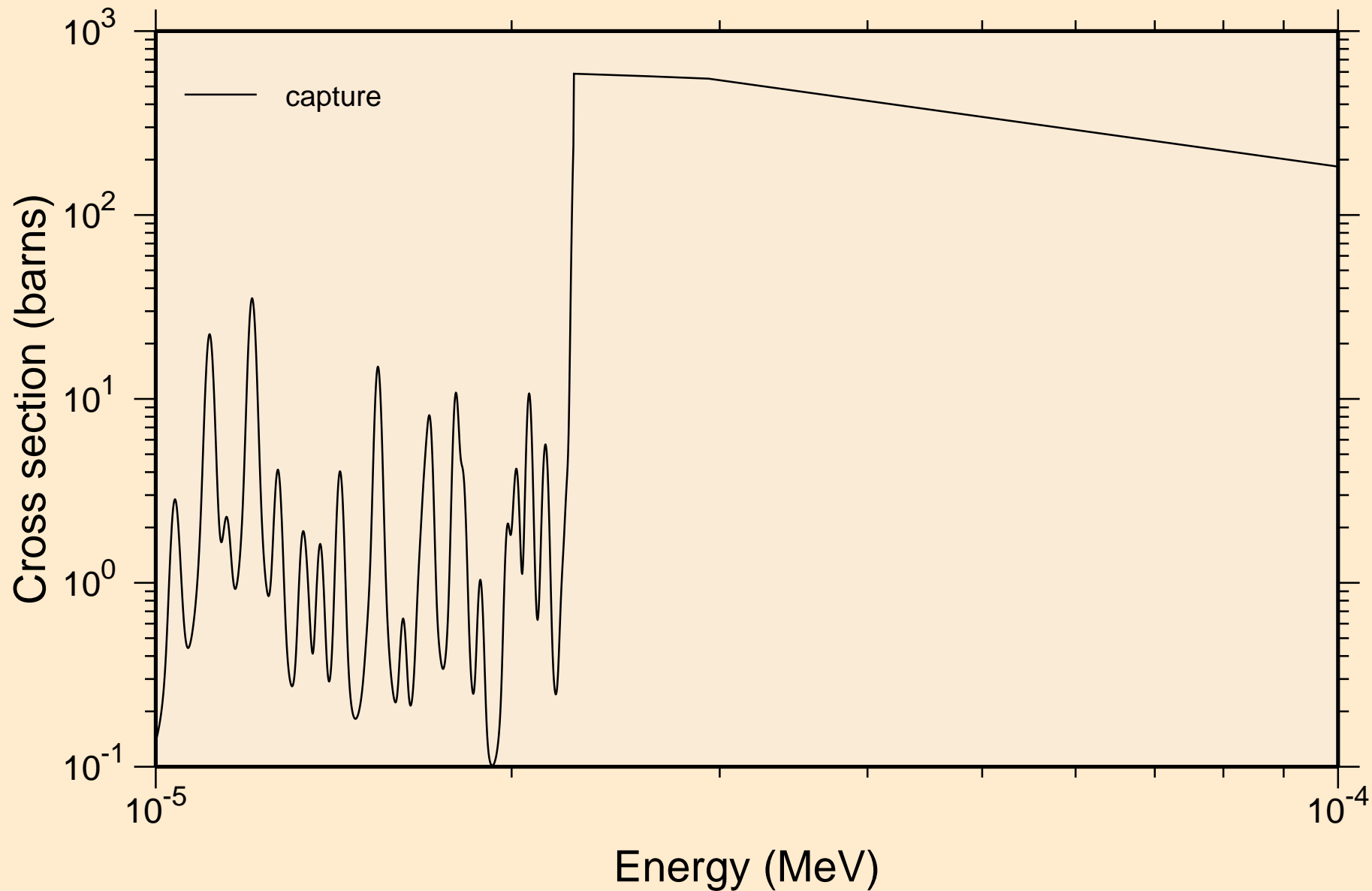




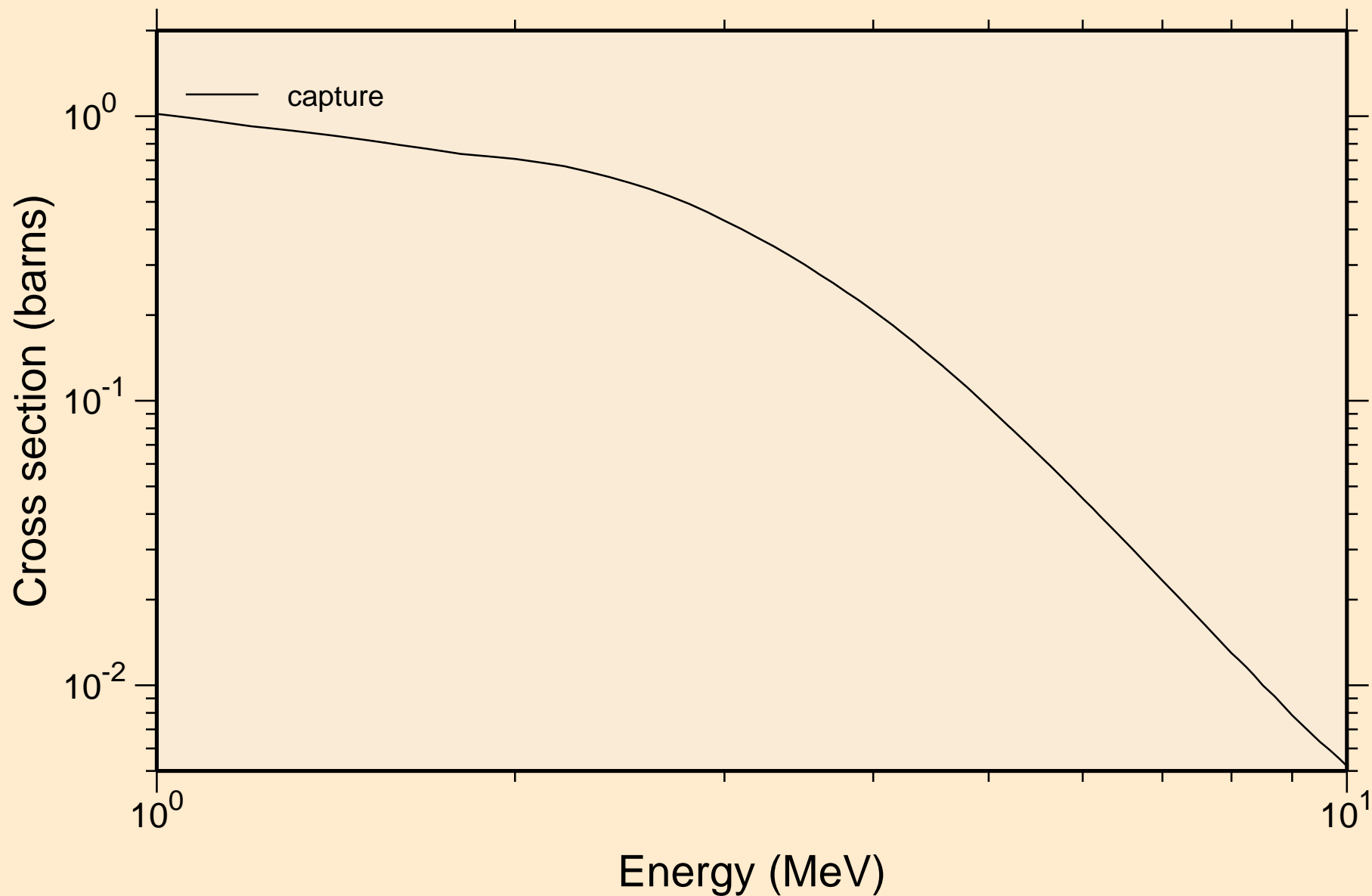
EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections



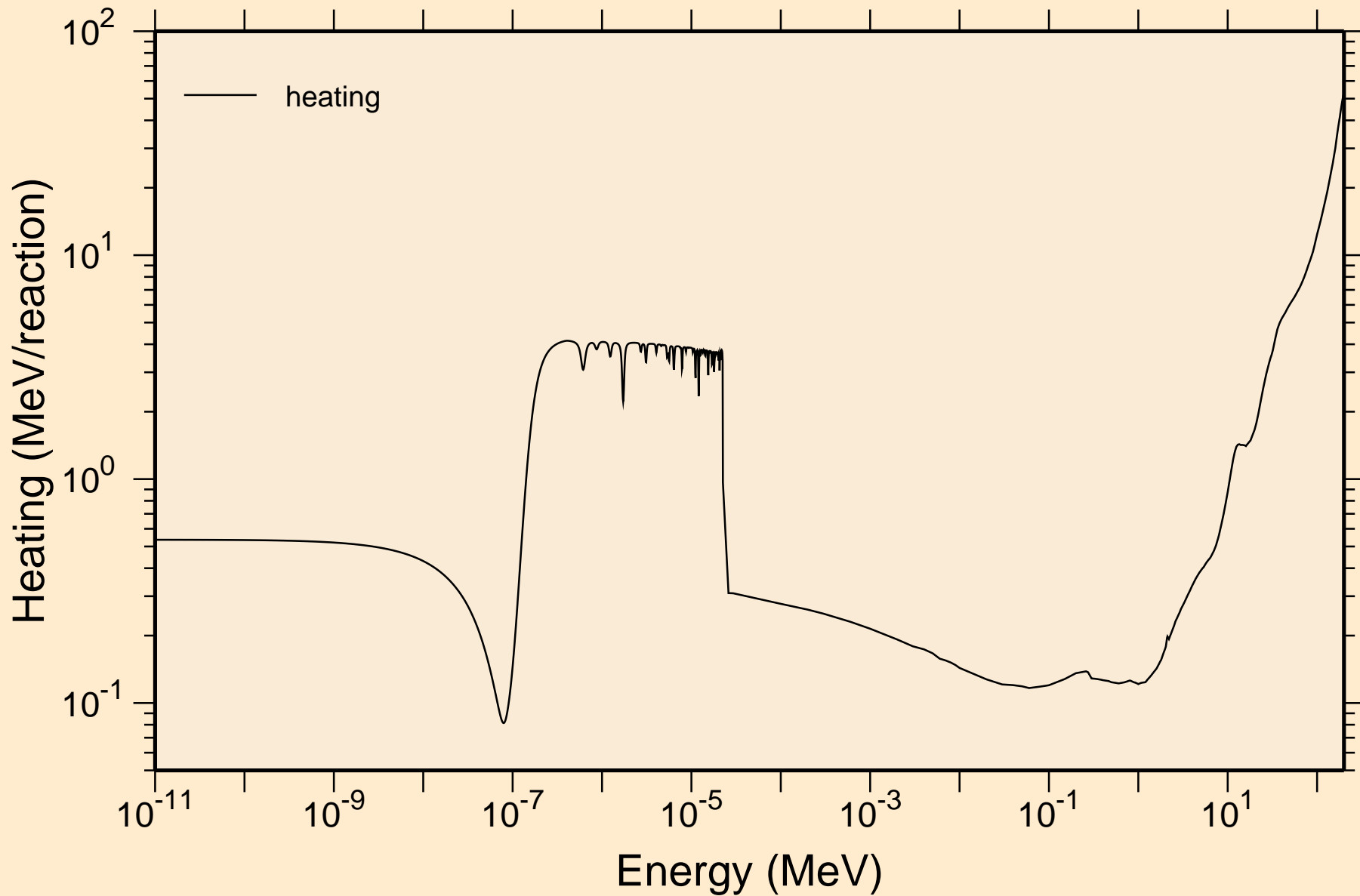
EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections



EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections

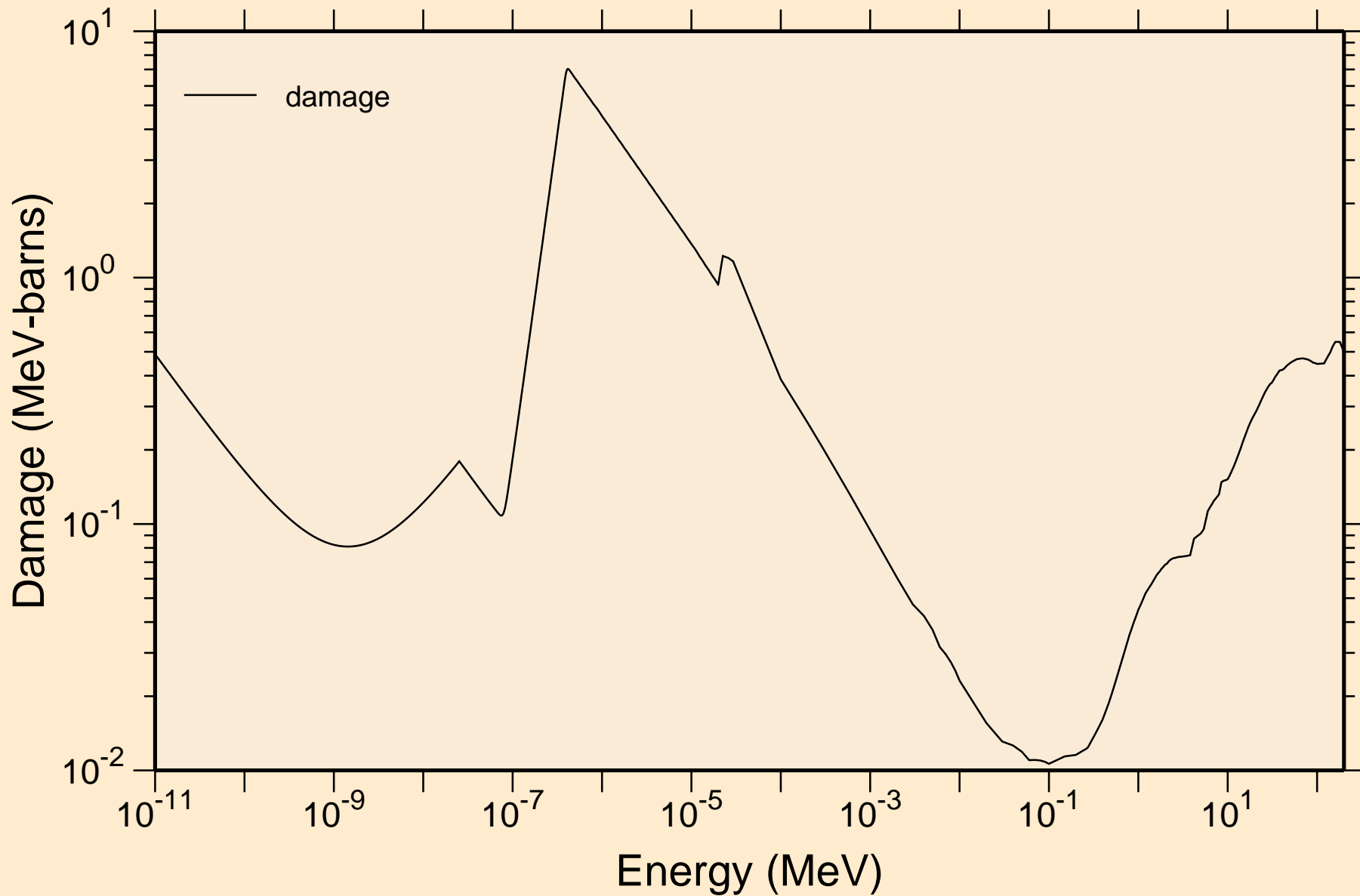


EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Heating

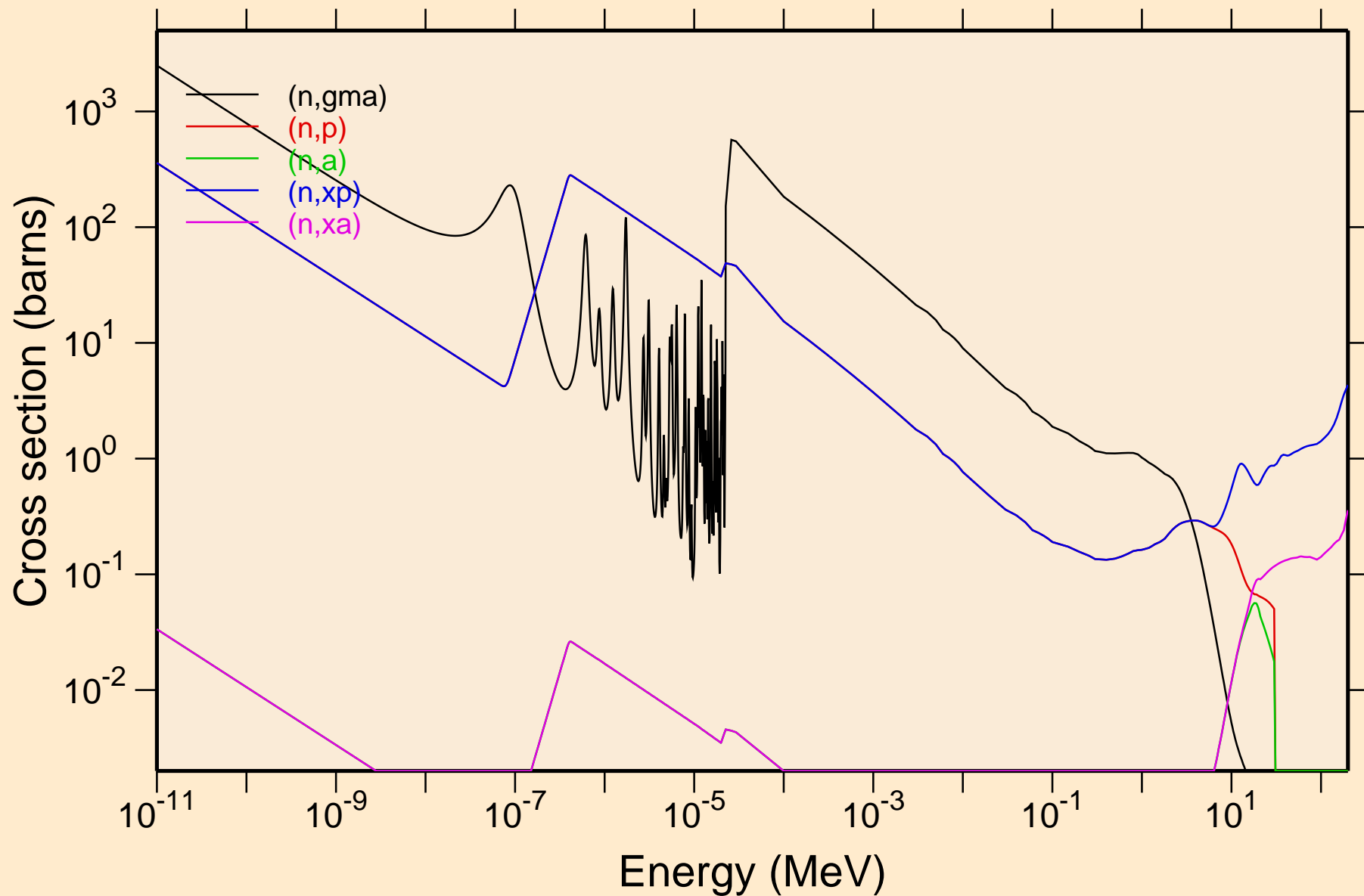


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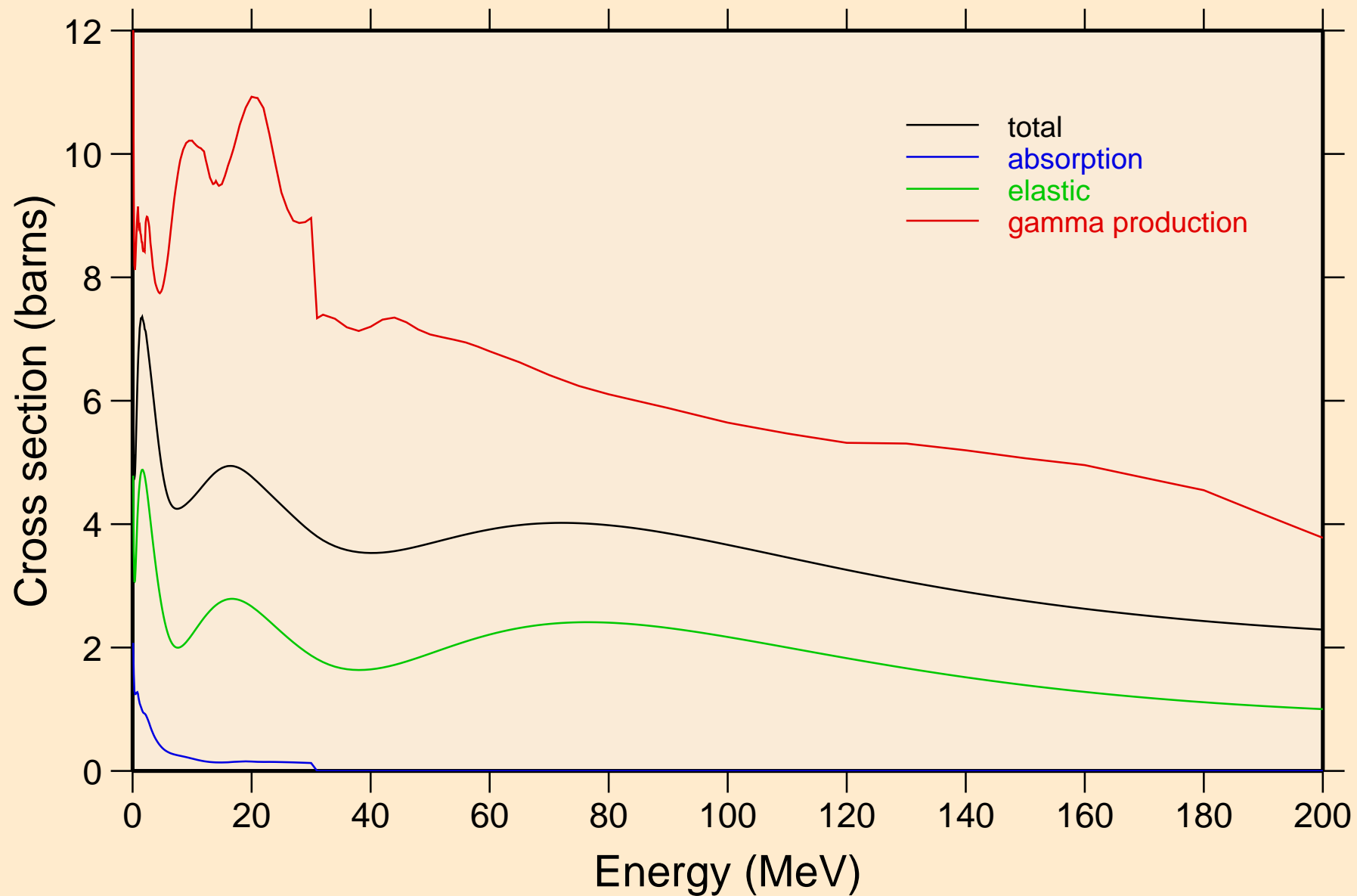
## Damage



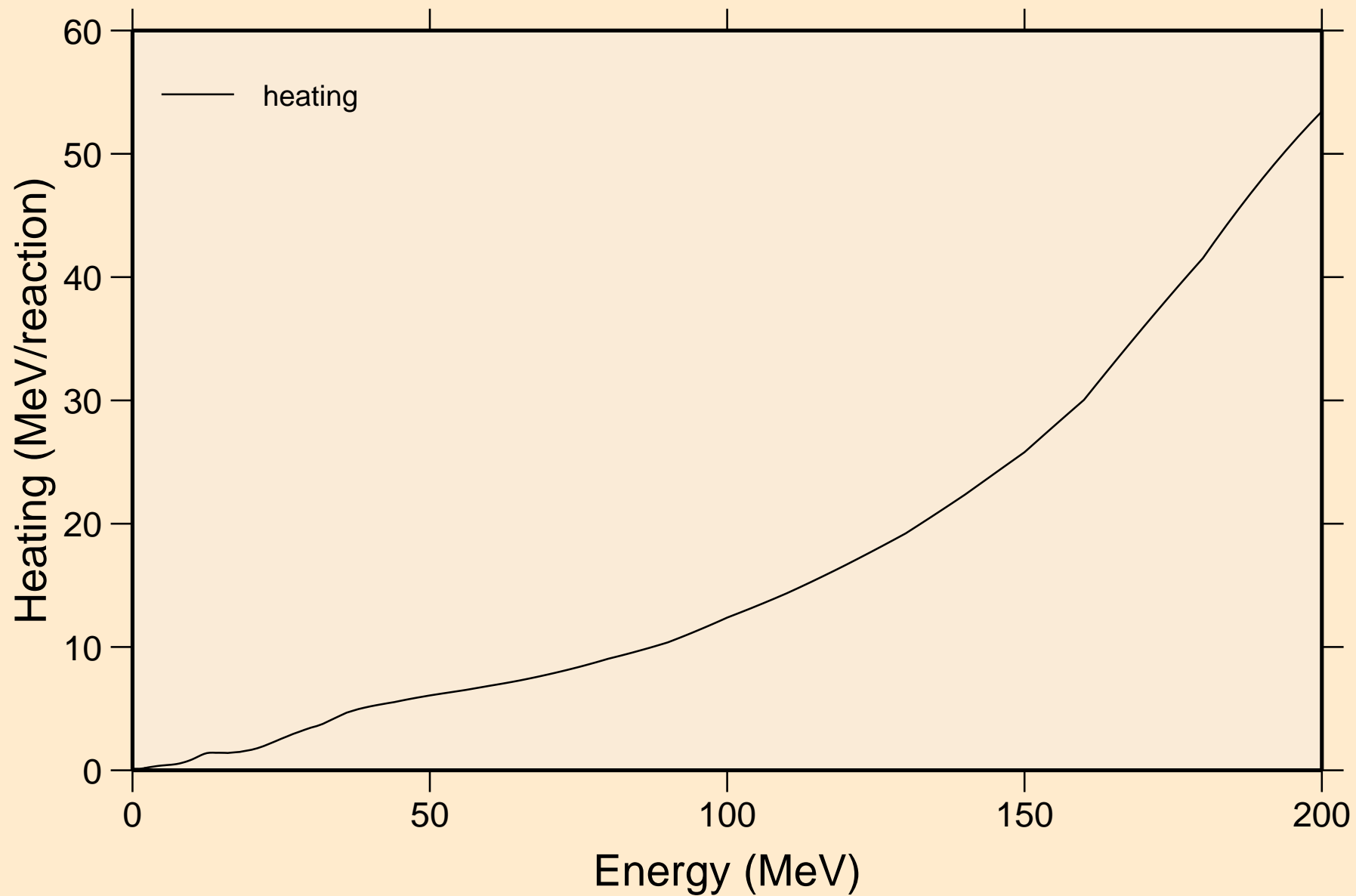
EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Non-threshold reactions



EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Principal cross sections

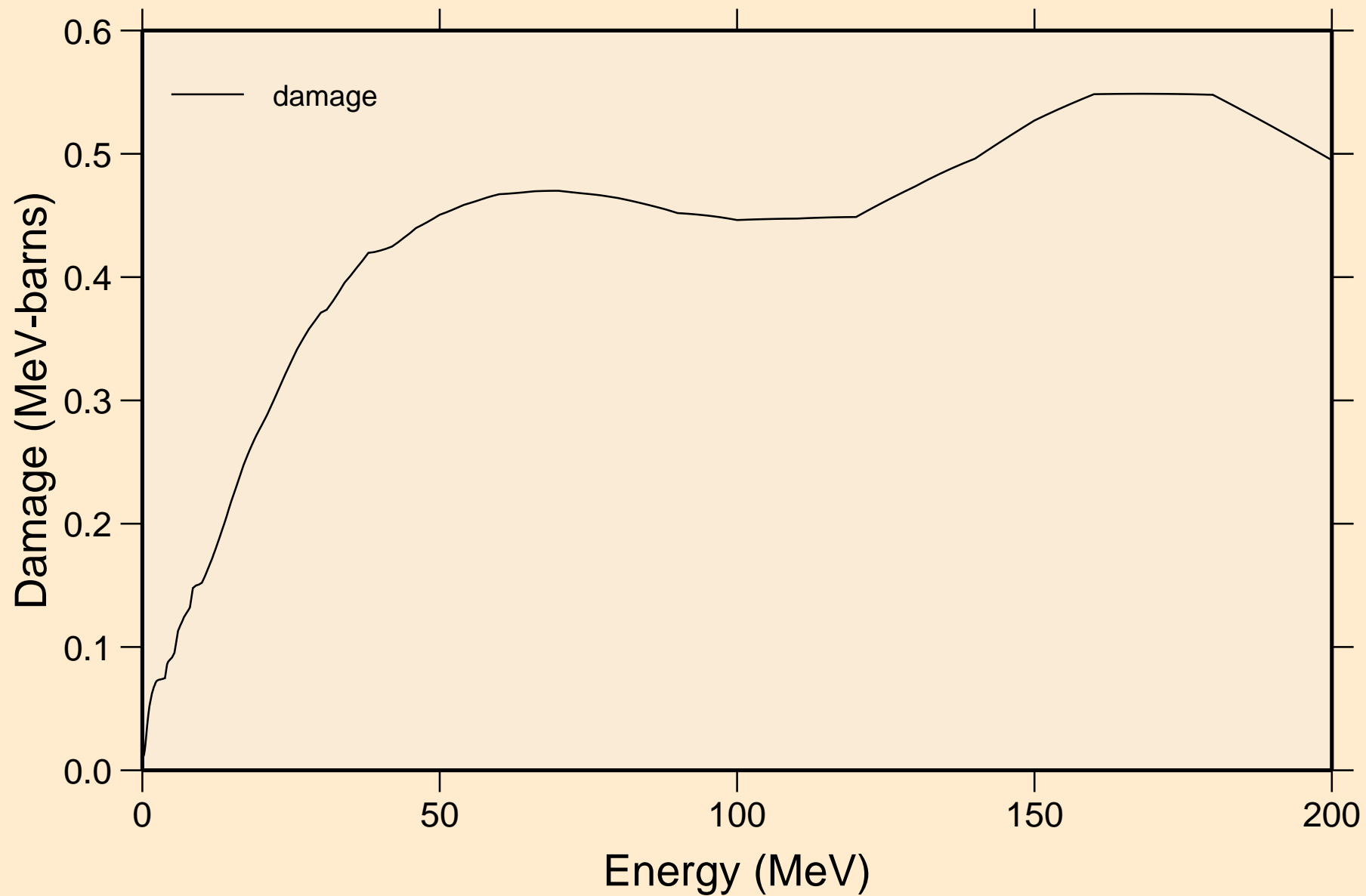


EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Heating

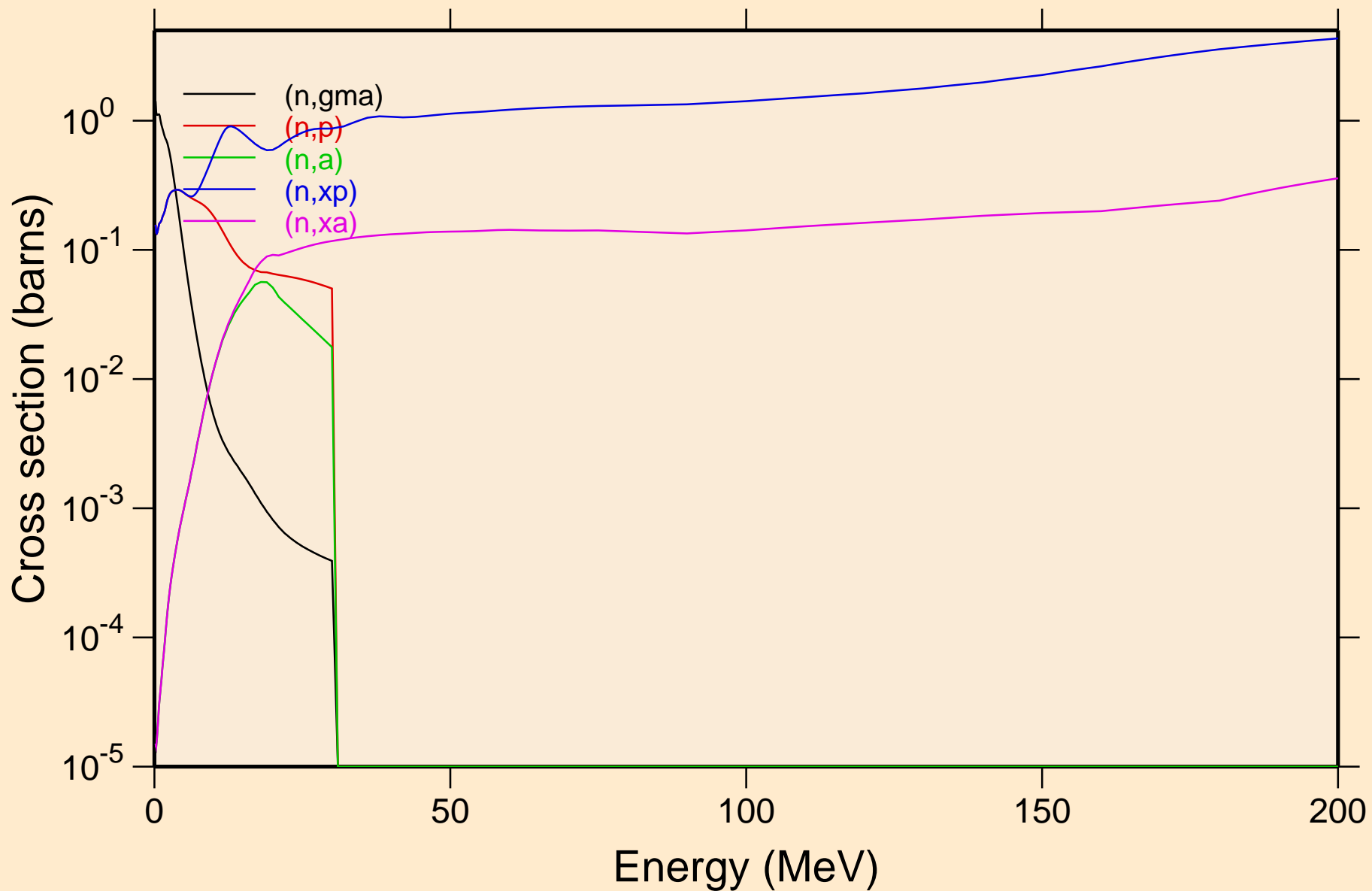




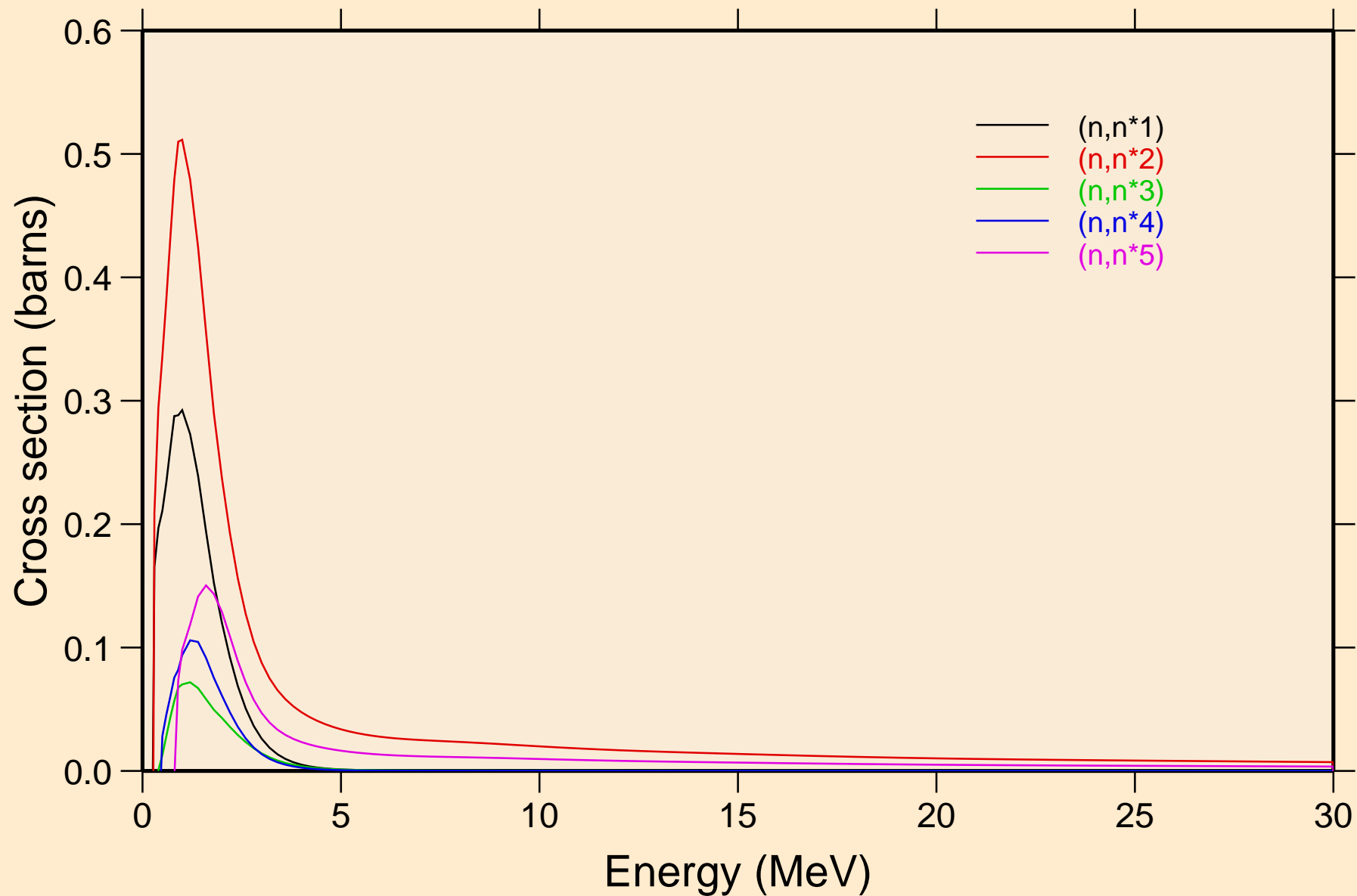
EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Damage



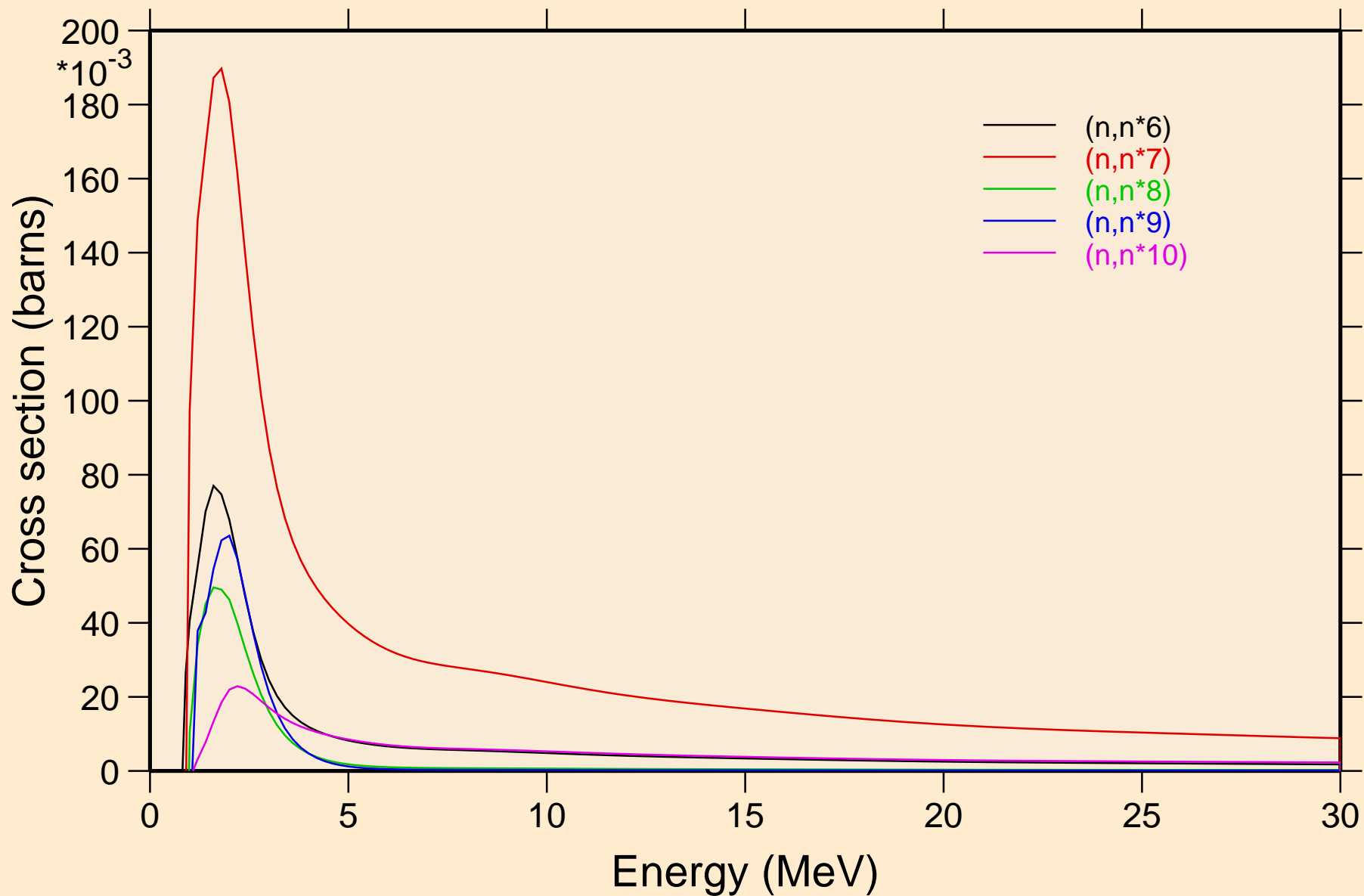
EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Non-threshold reactions



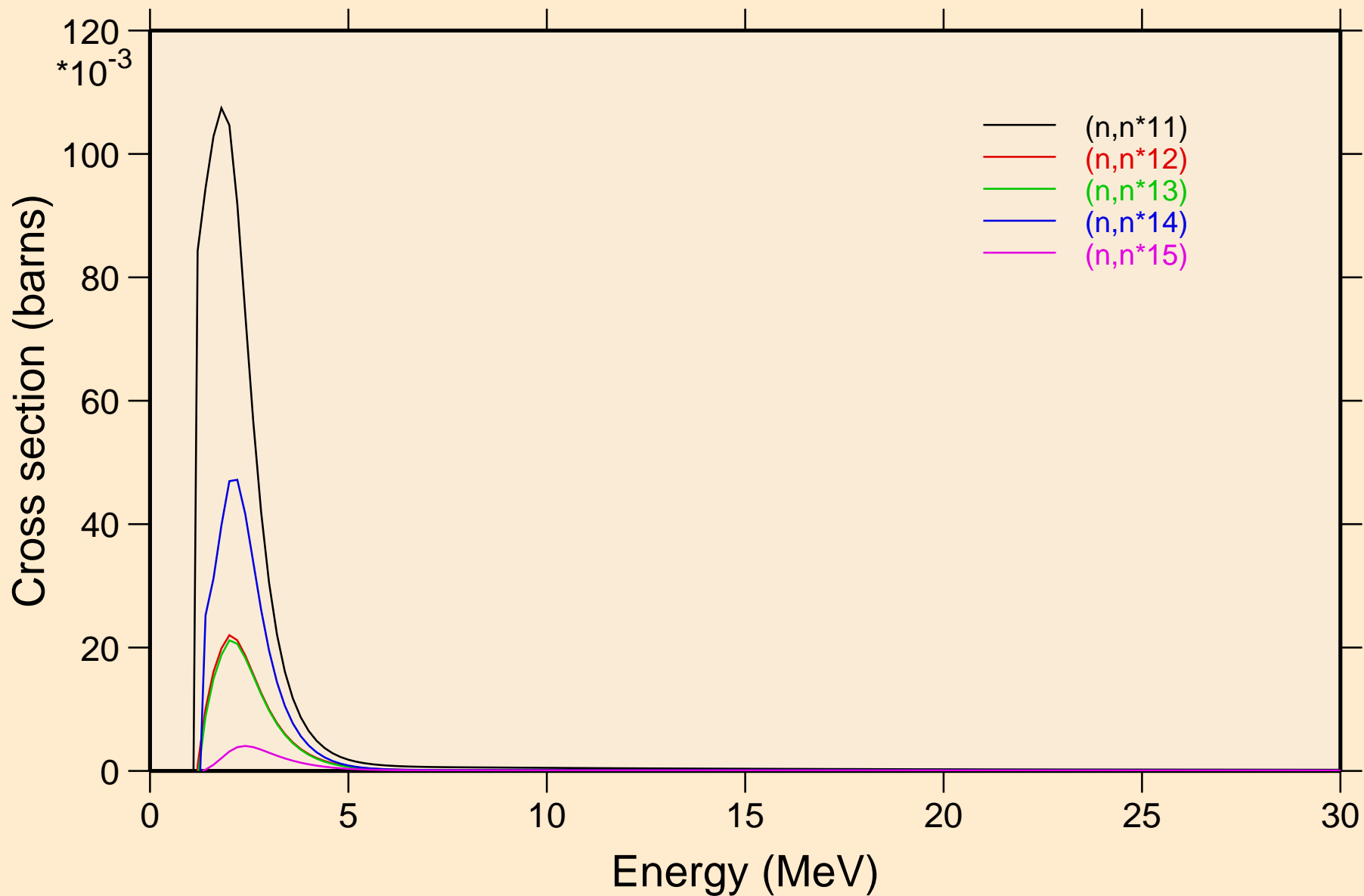
EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



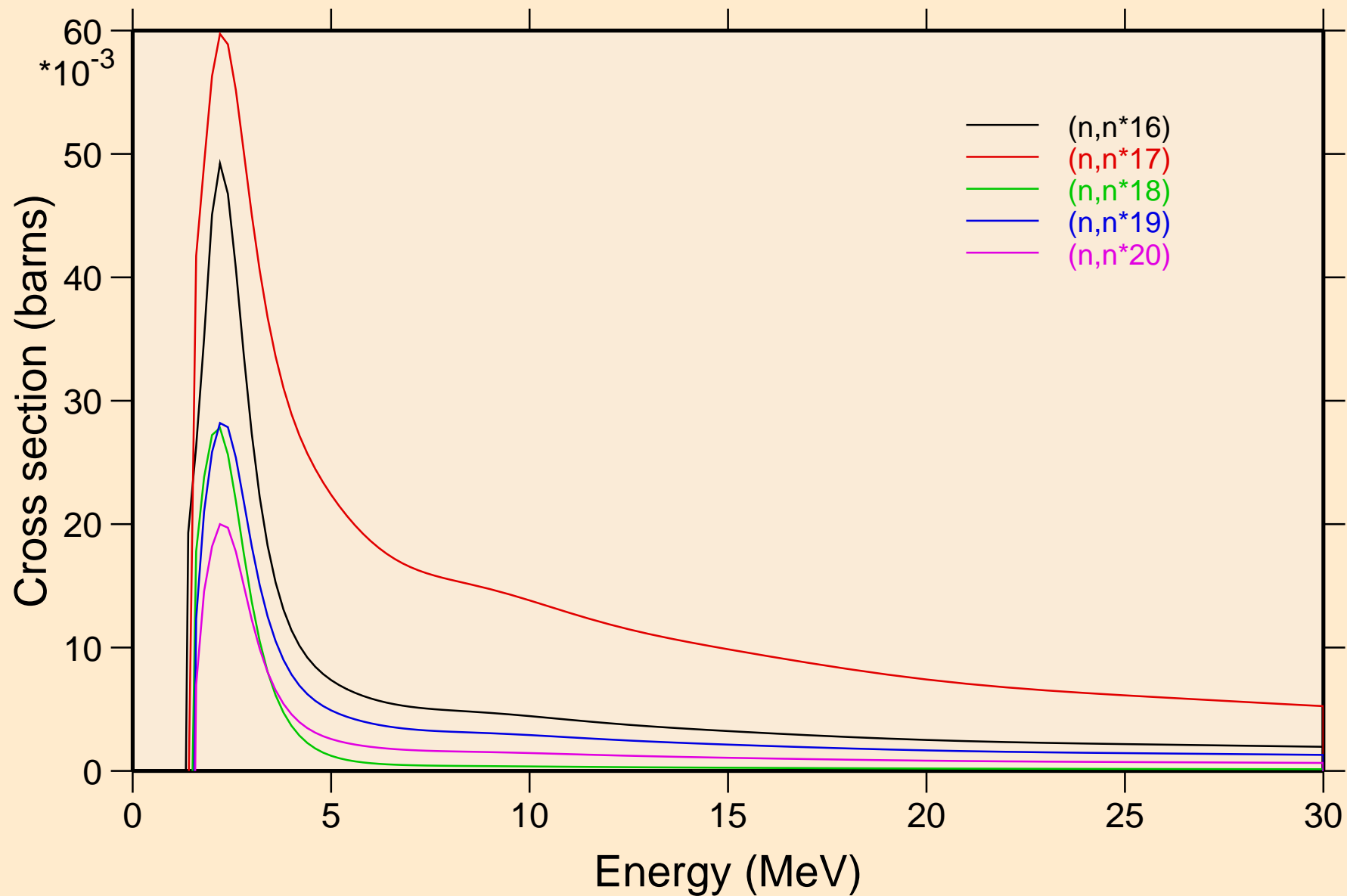
EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



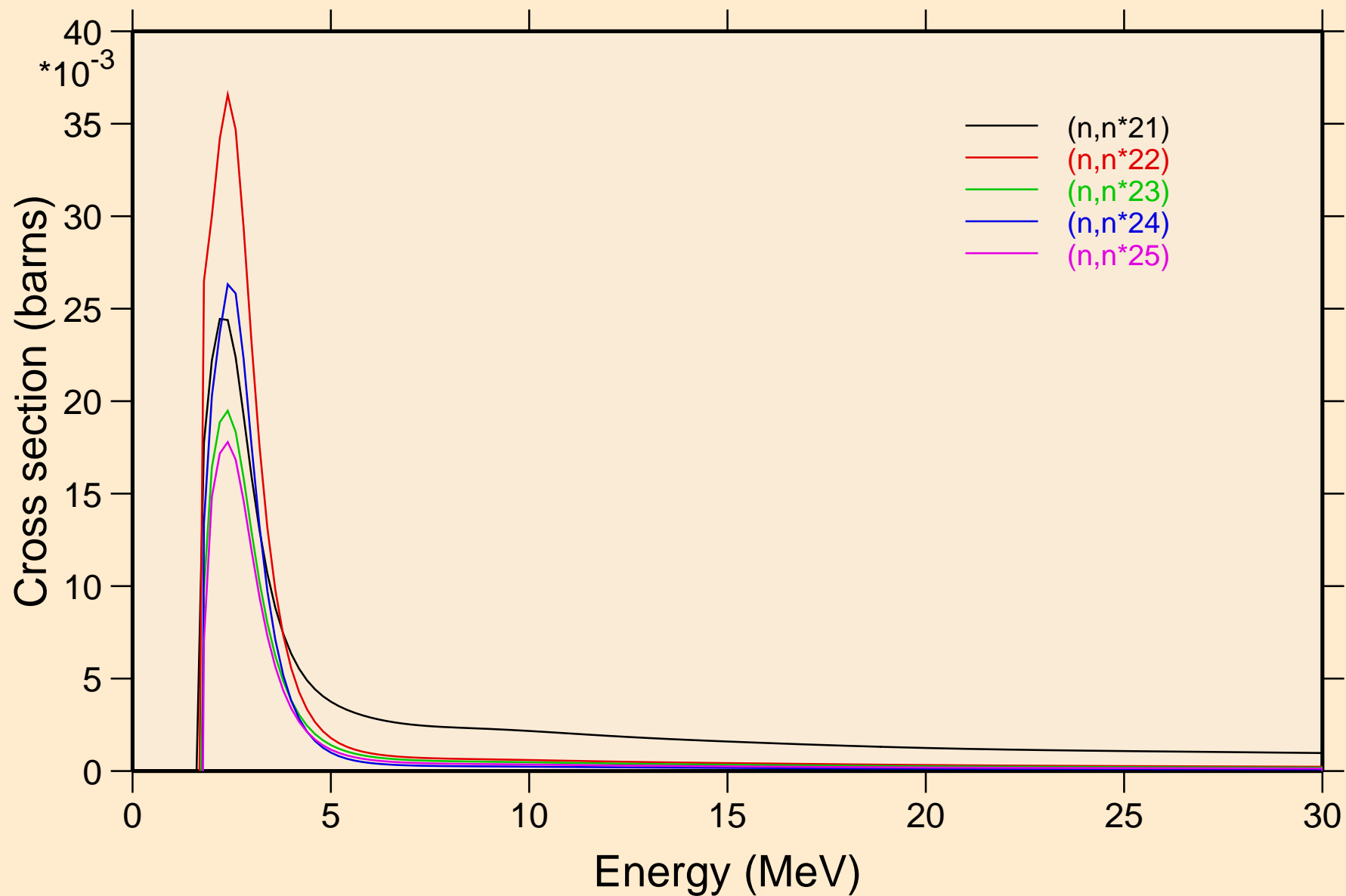
EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



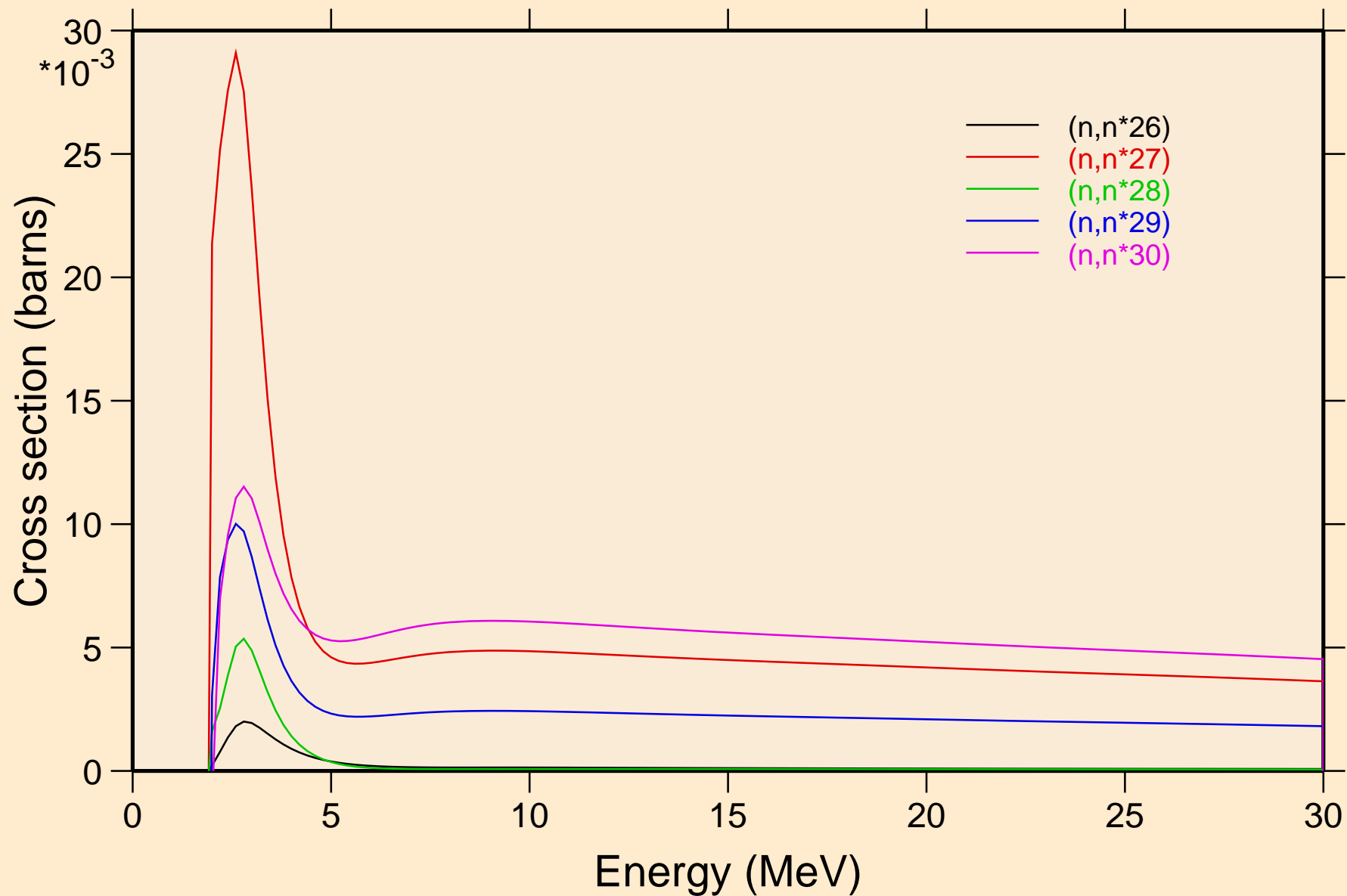
EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



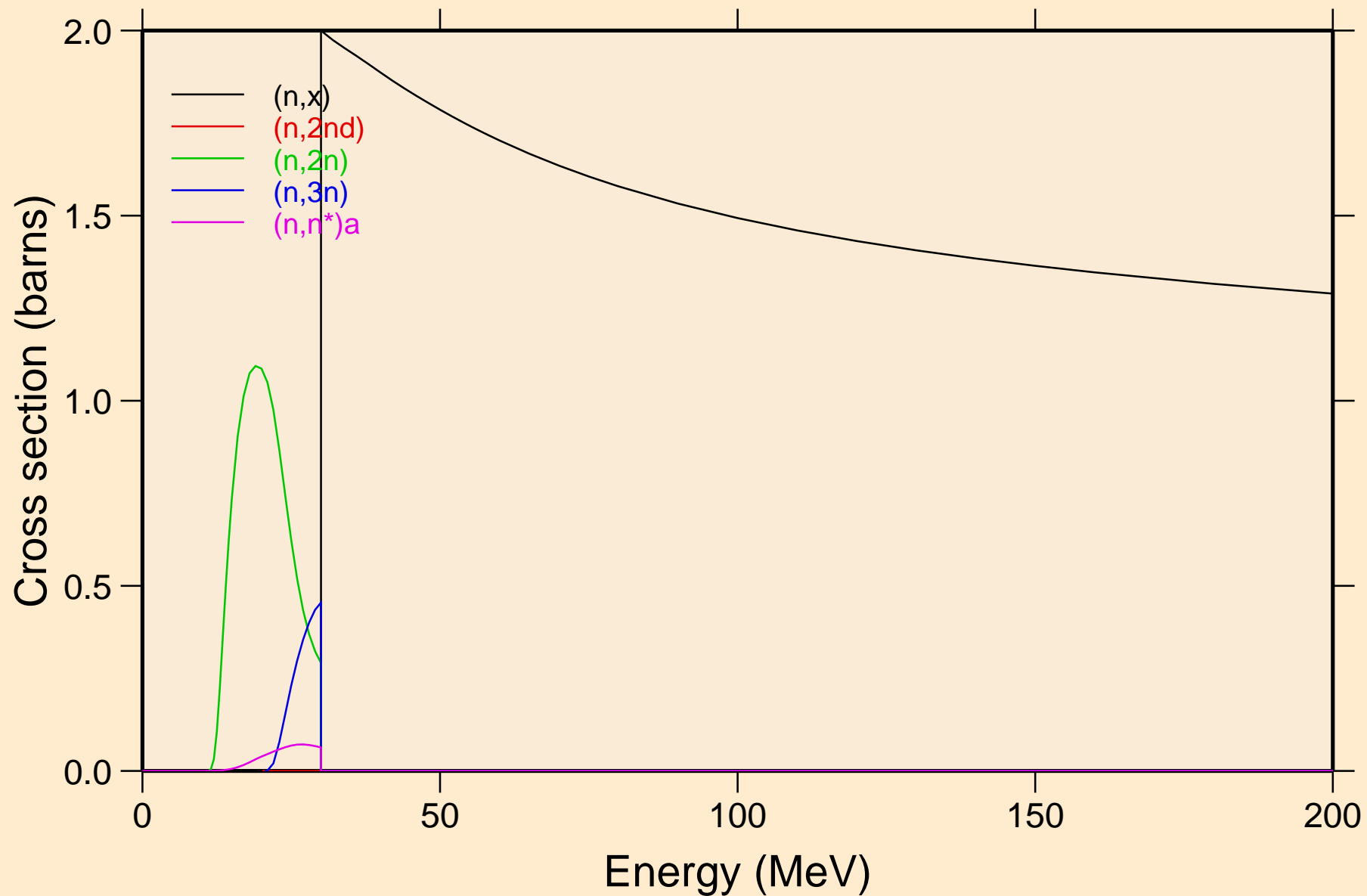
EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



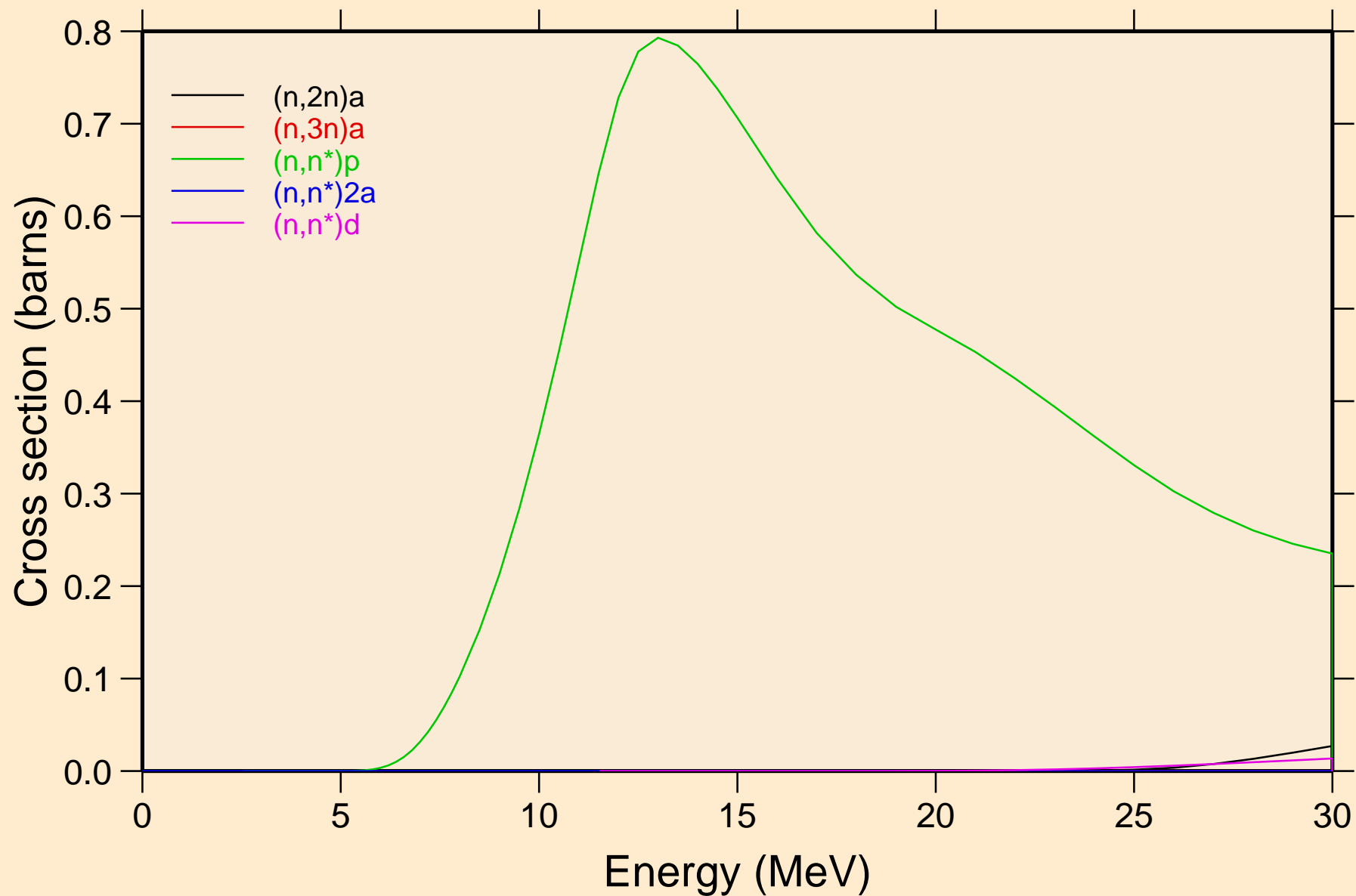


# EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

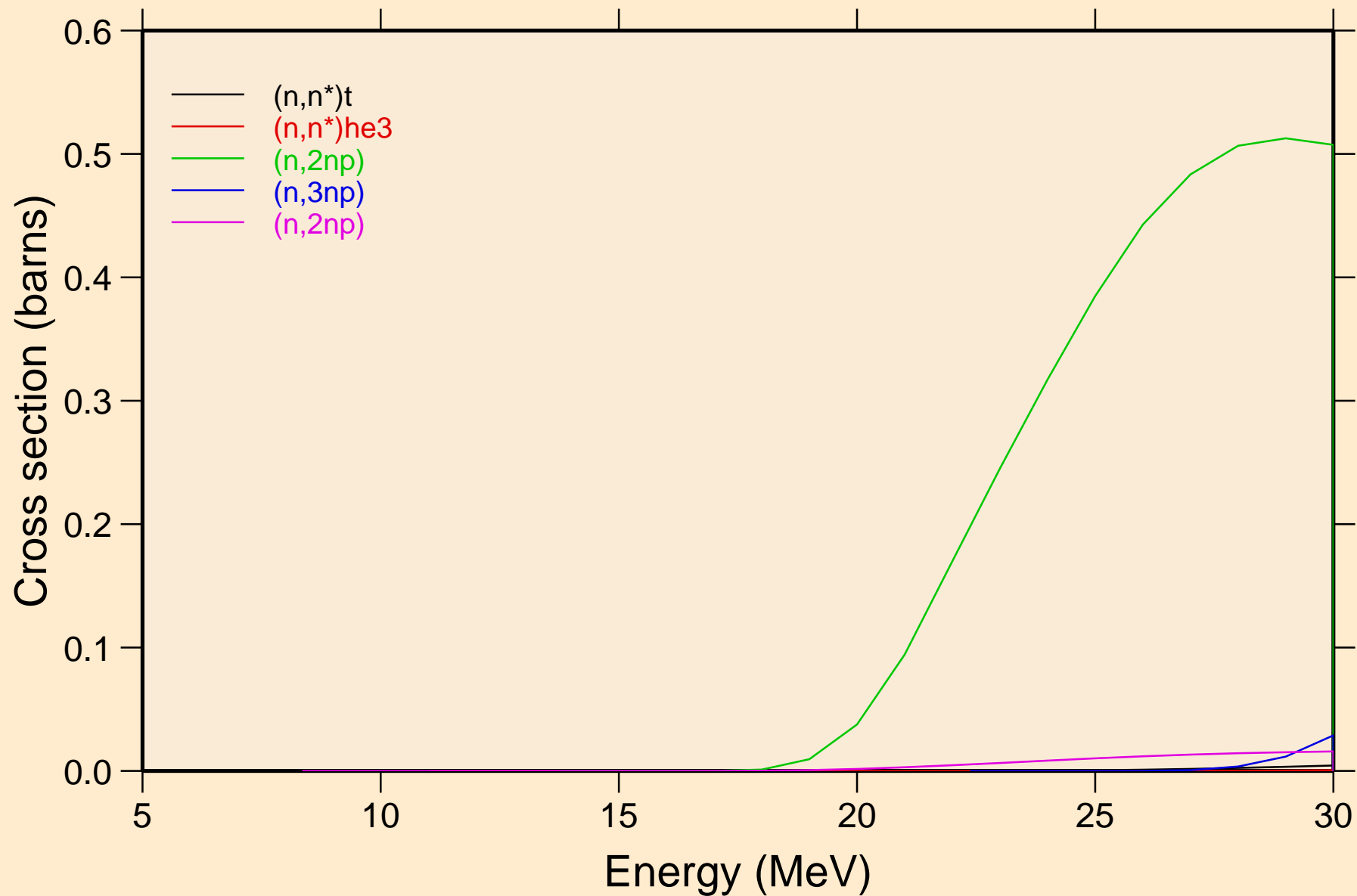
## Threshold reactions



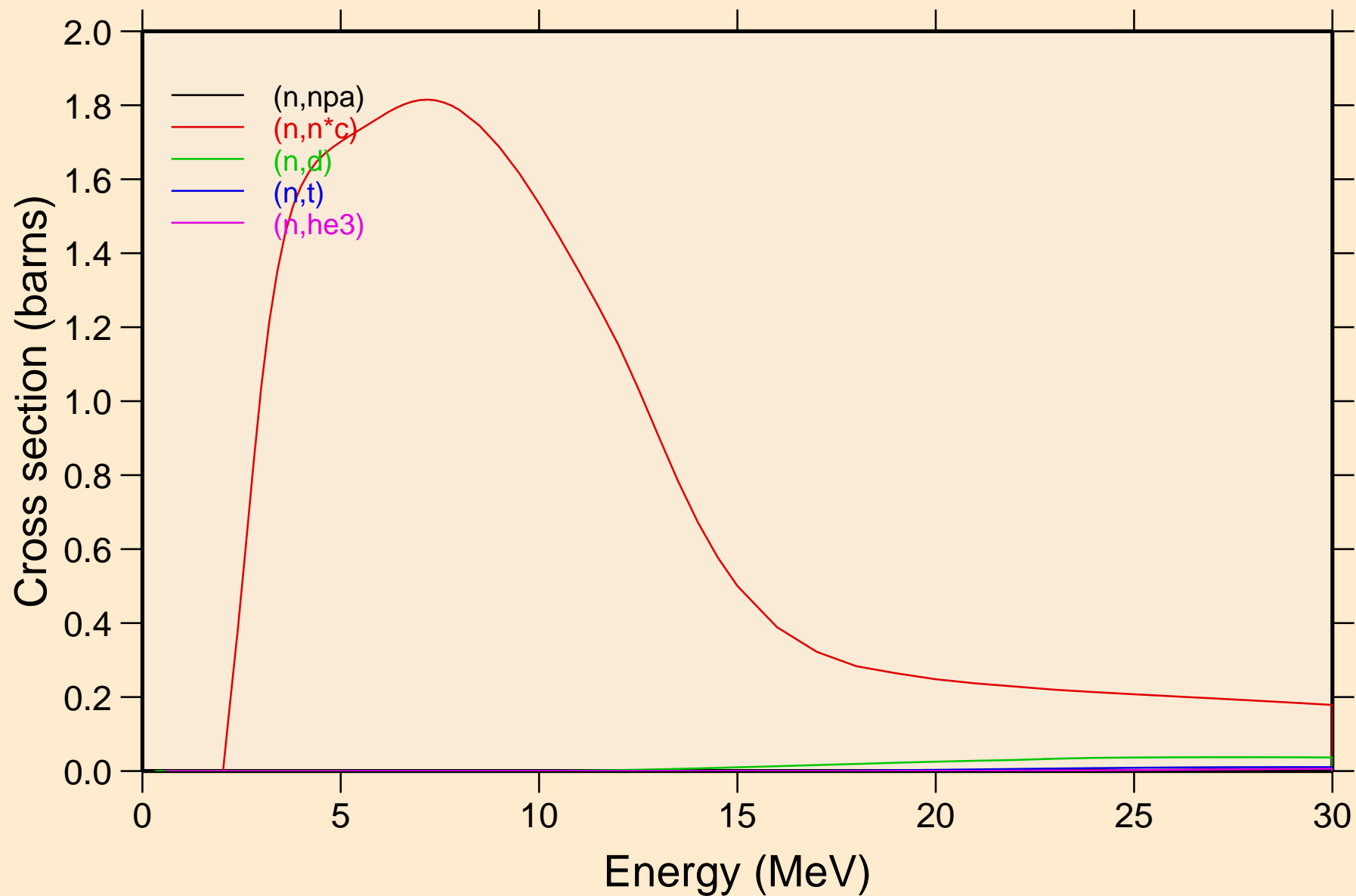
EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



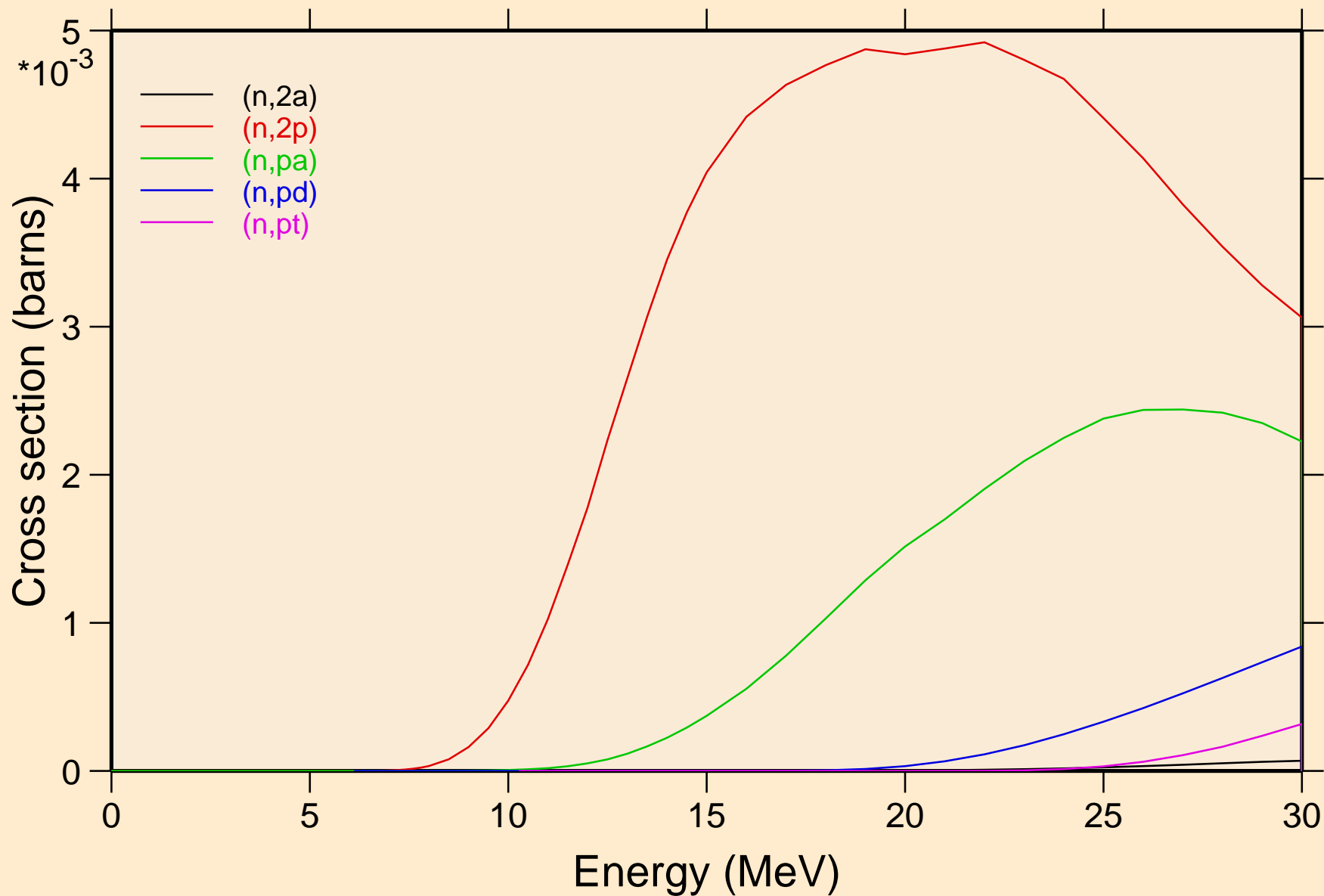
EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



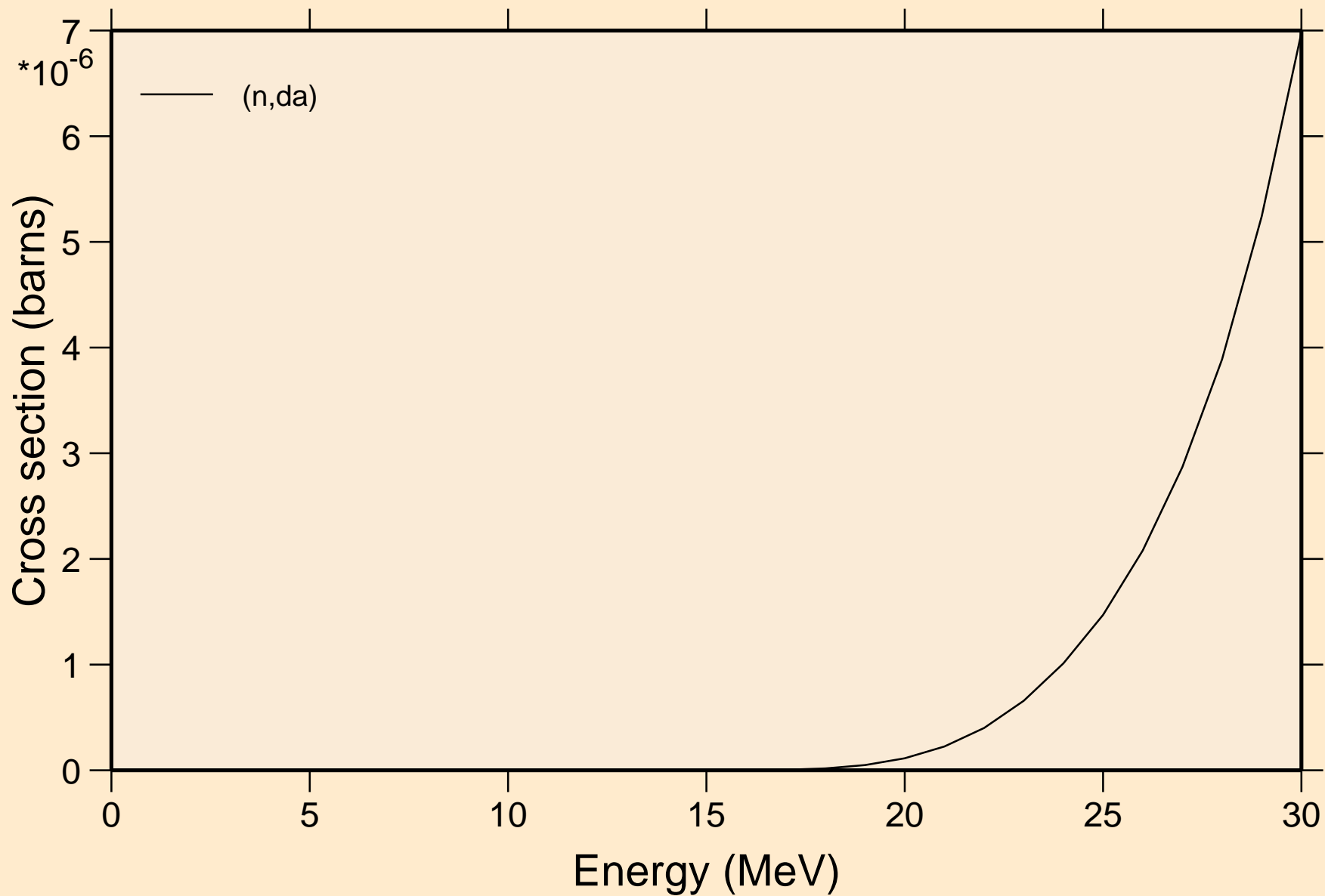
EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



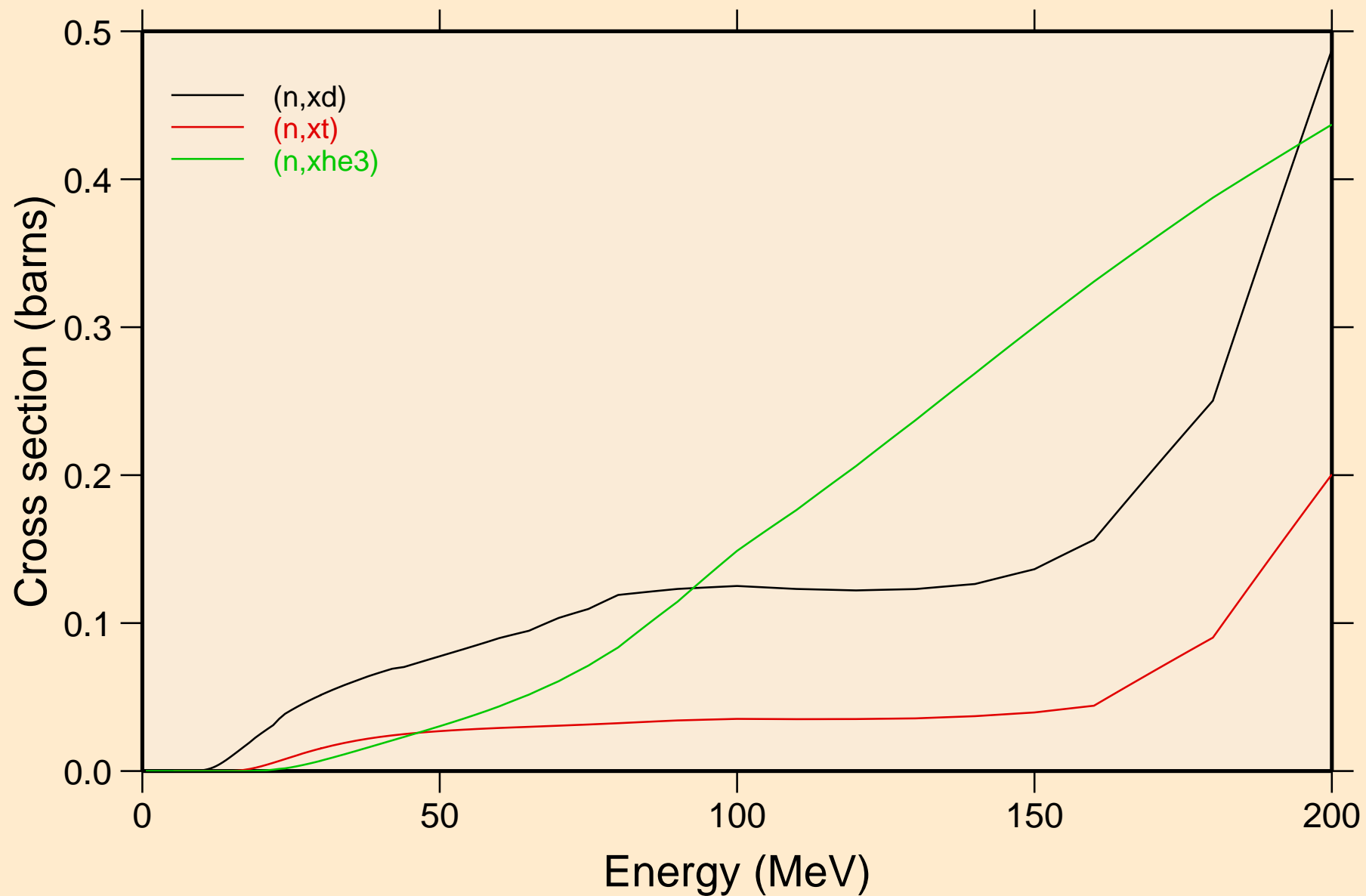
EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



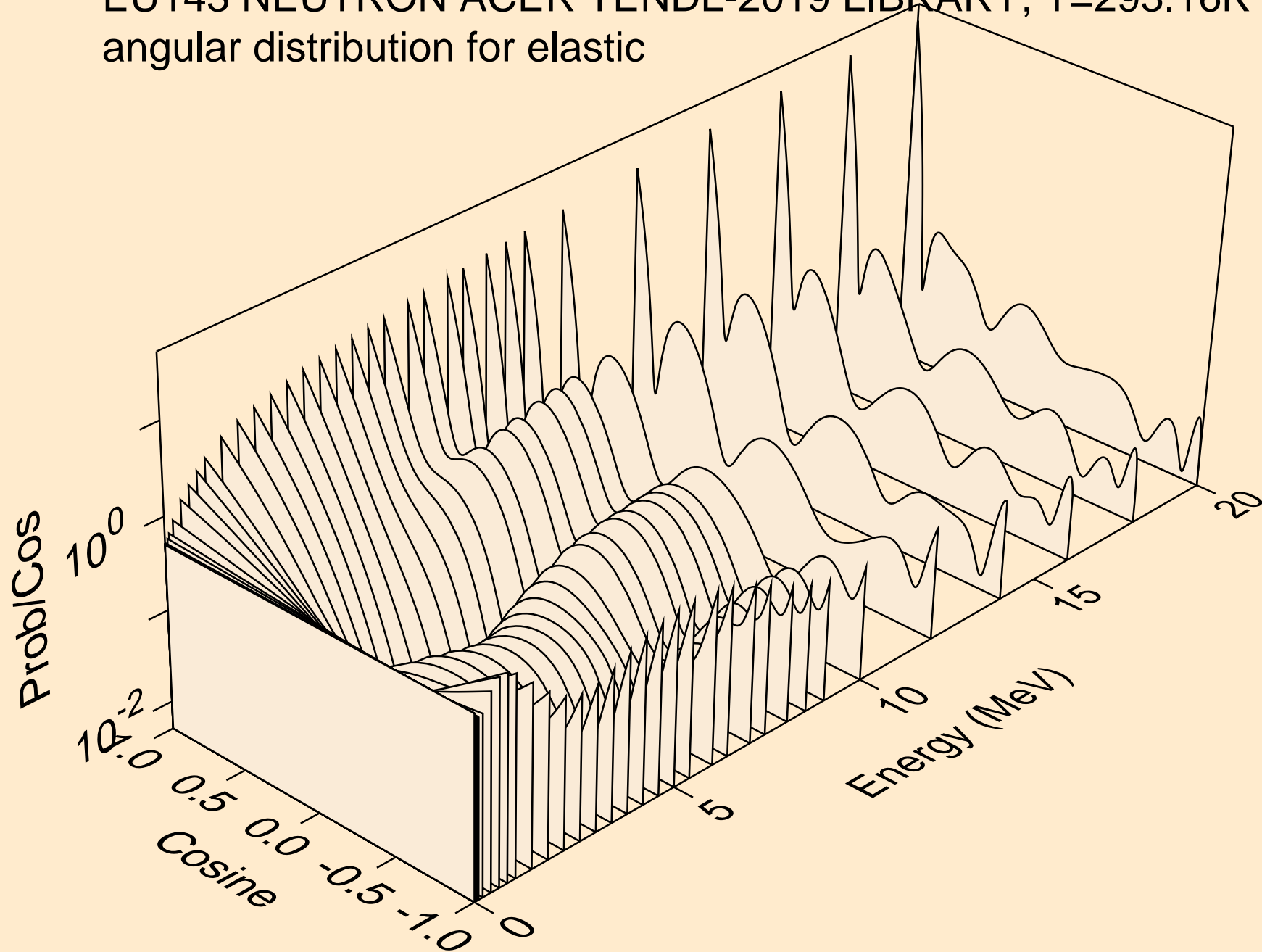
EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions

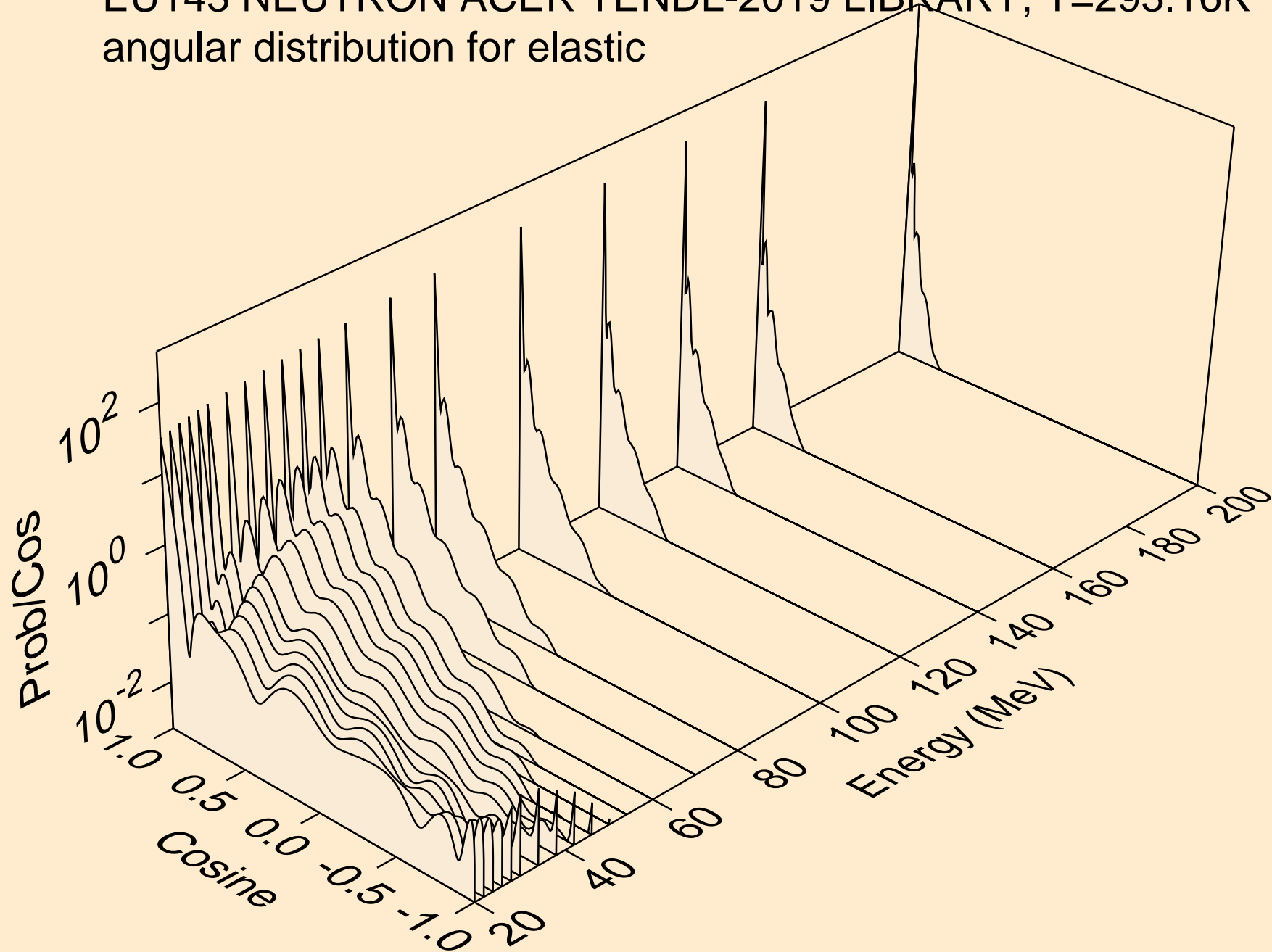


EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for elastic

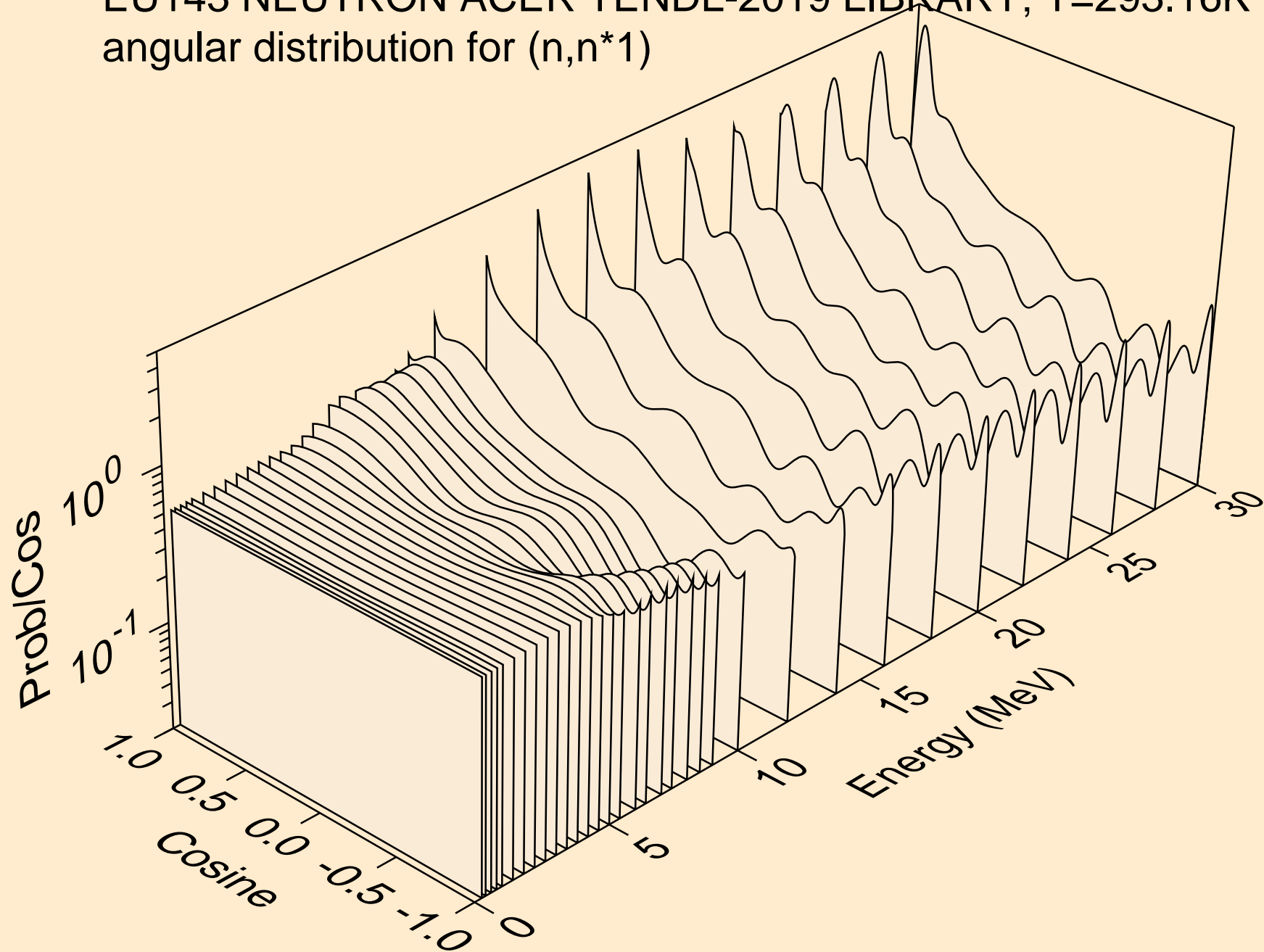




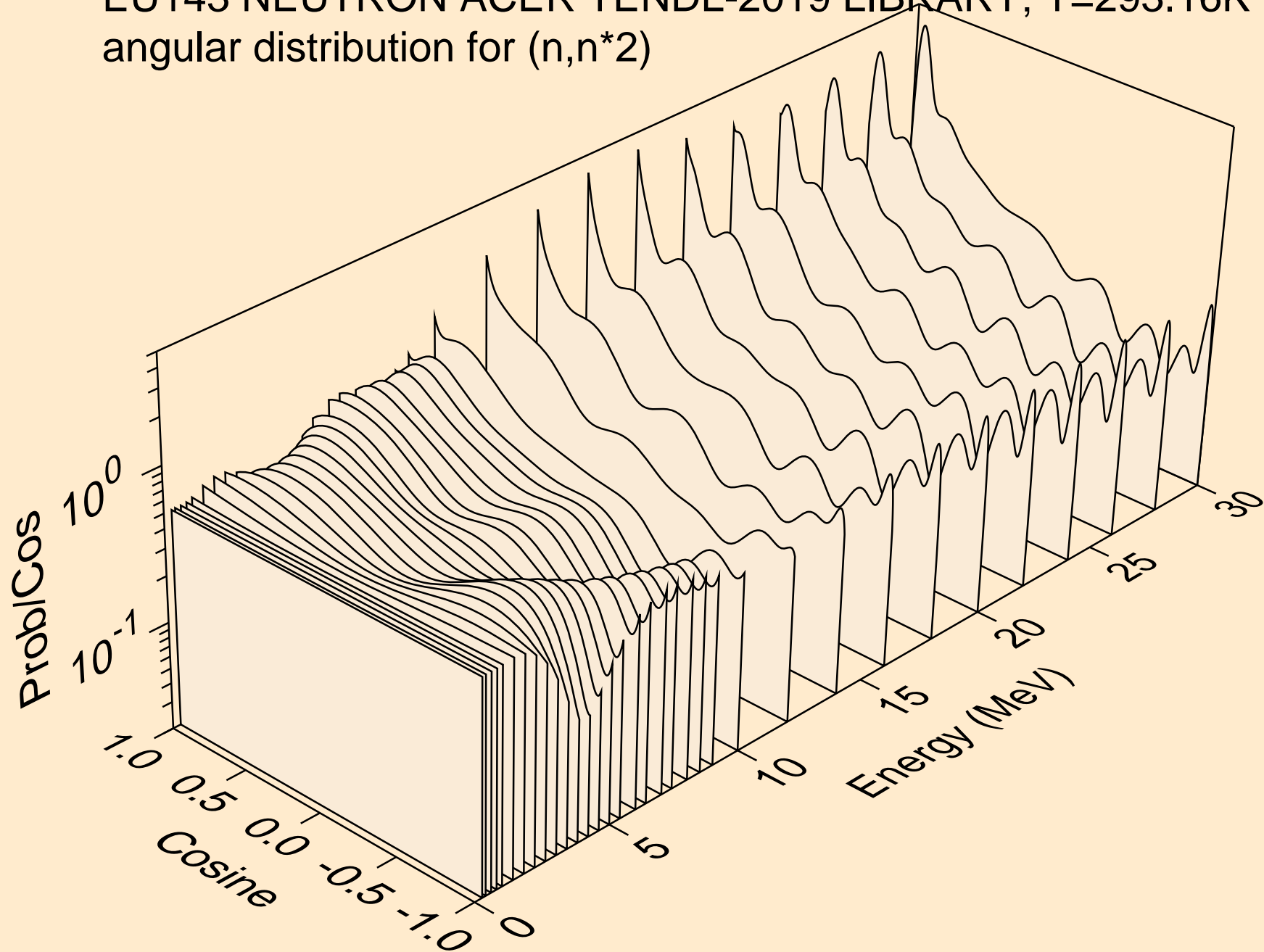
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angular distribution for elastic



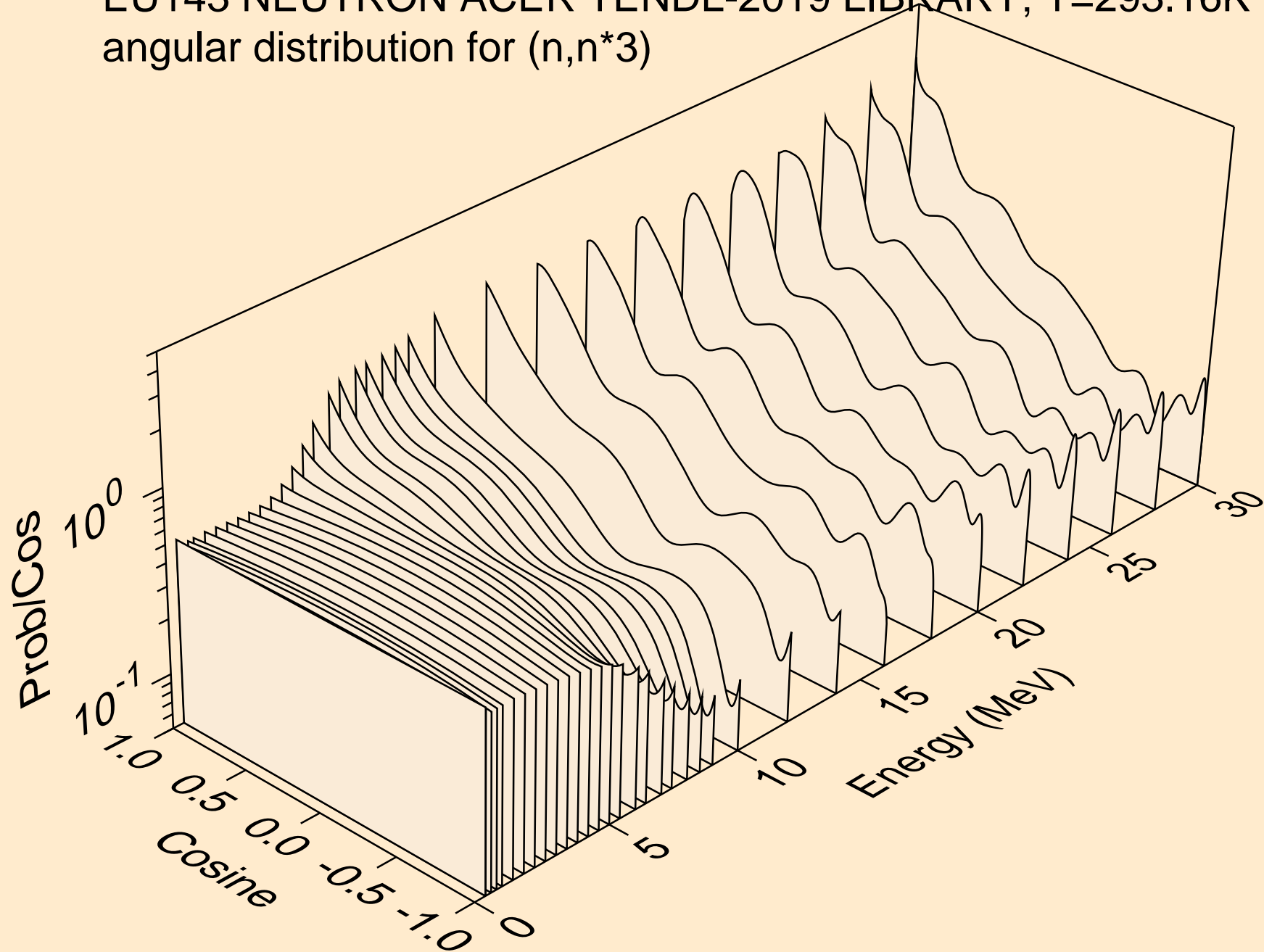
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angular distribution for (n,n\*1)



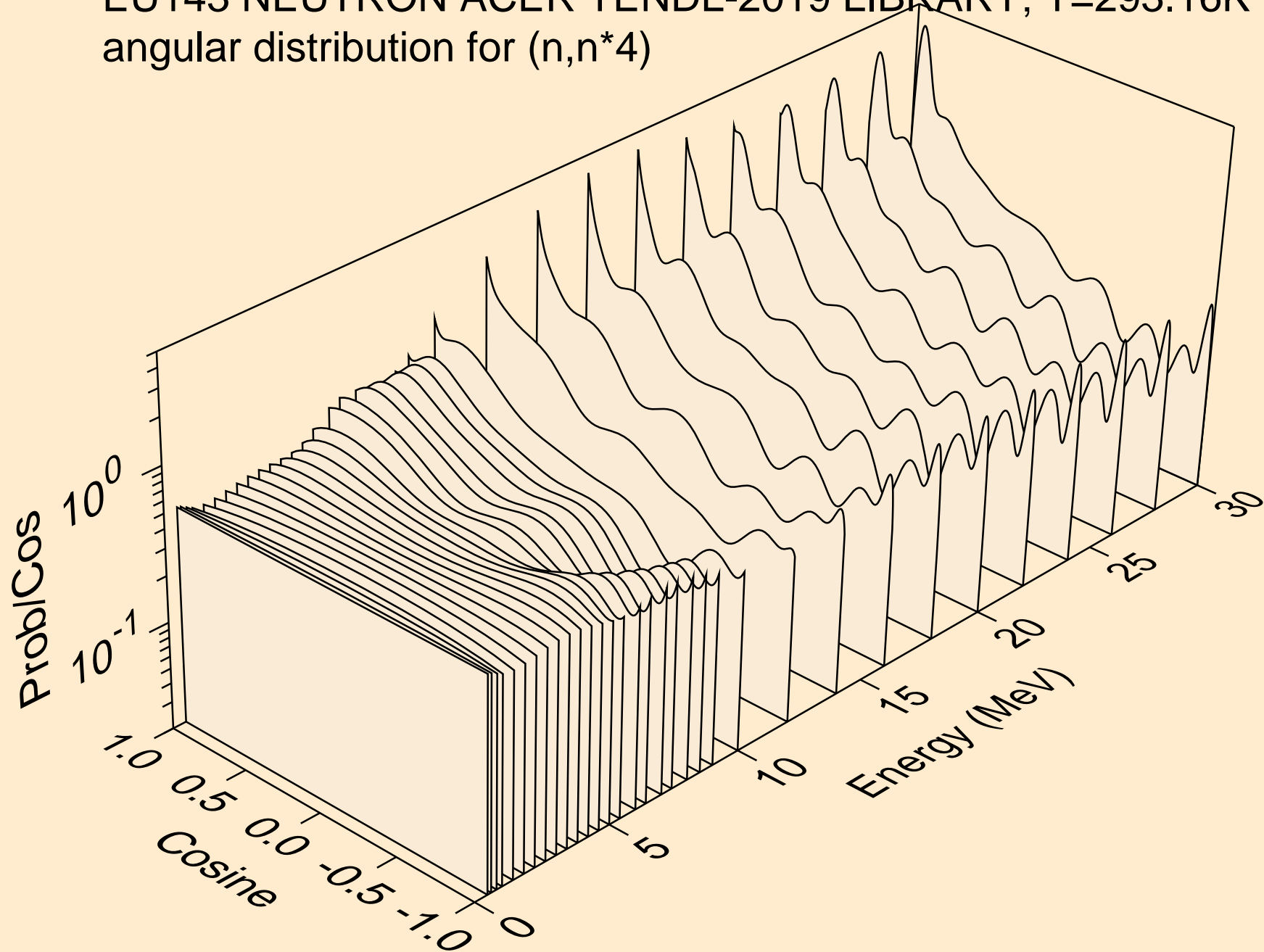
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angular distribution for (n,n\*2)



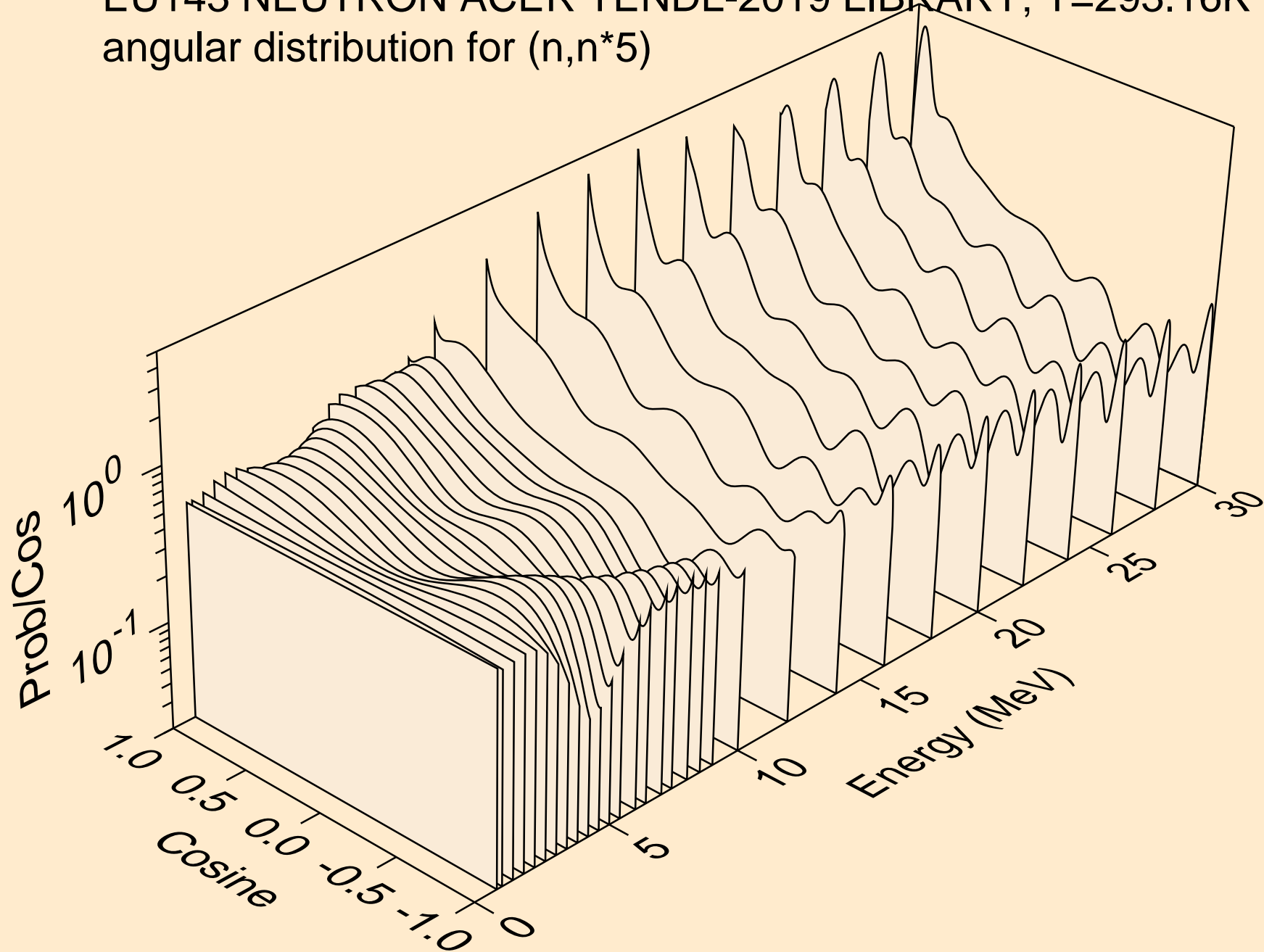
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angular distribution for (n,n\*3)



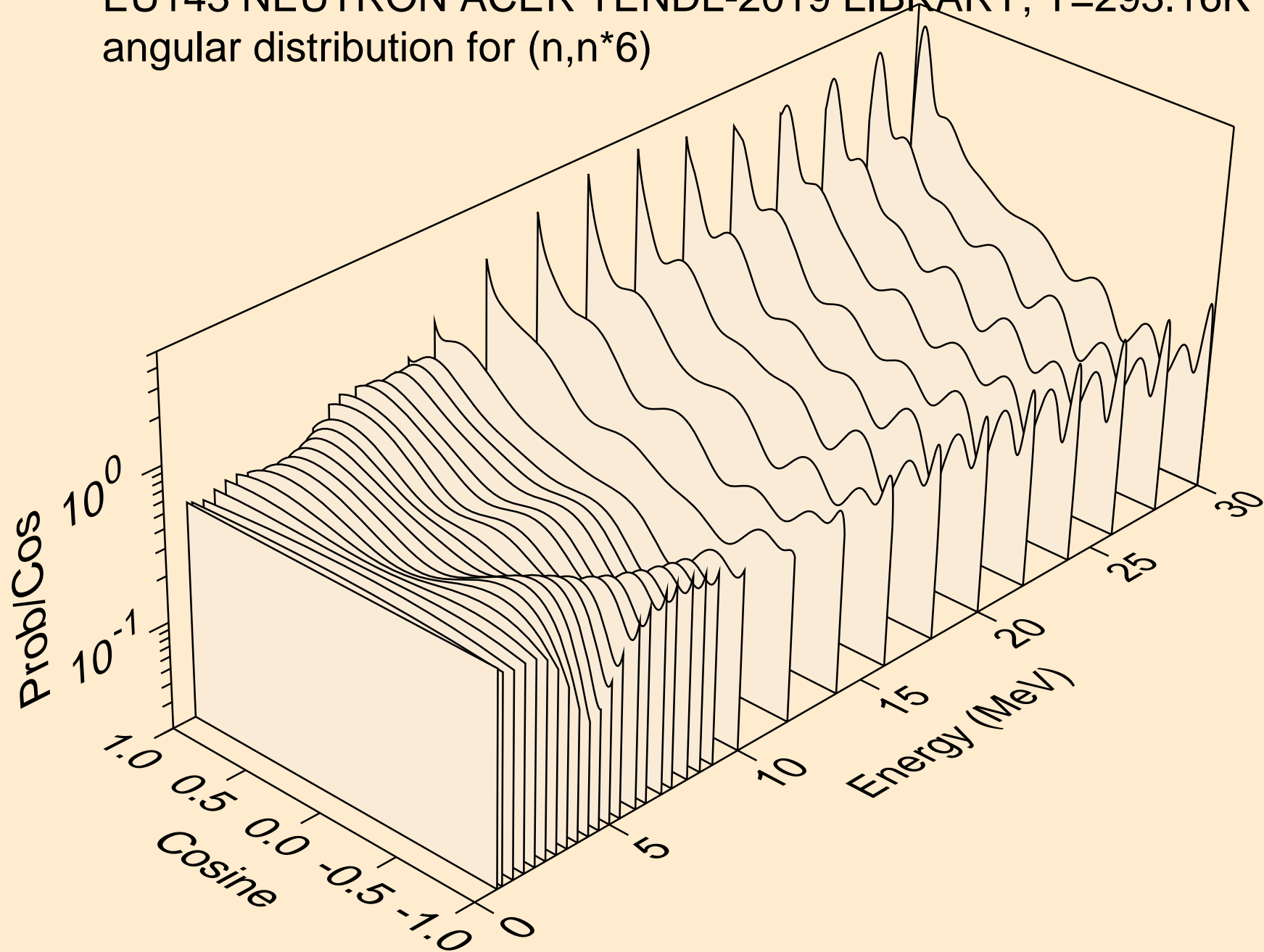
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angular distribution for (n,n\*4)



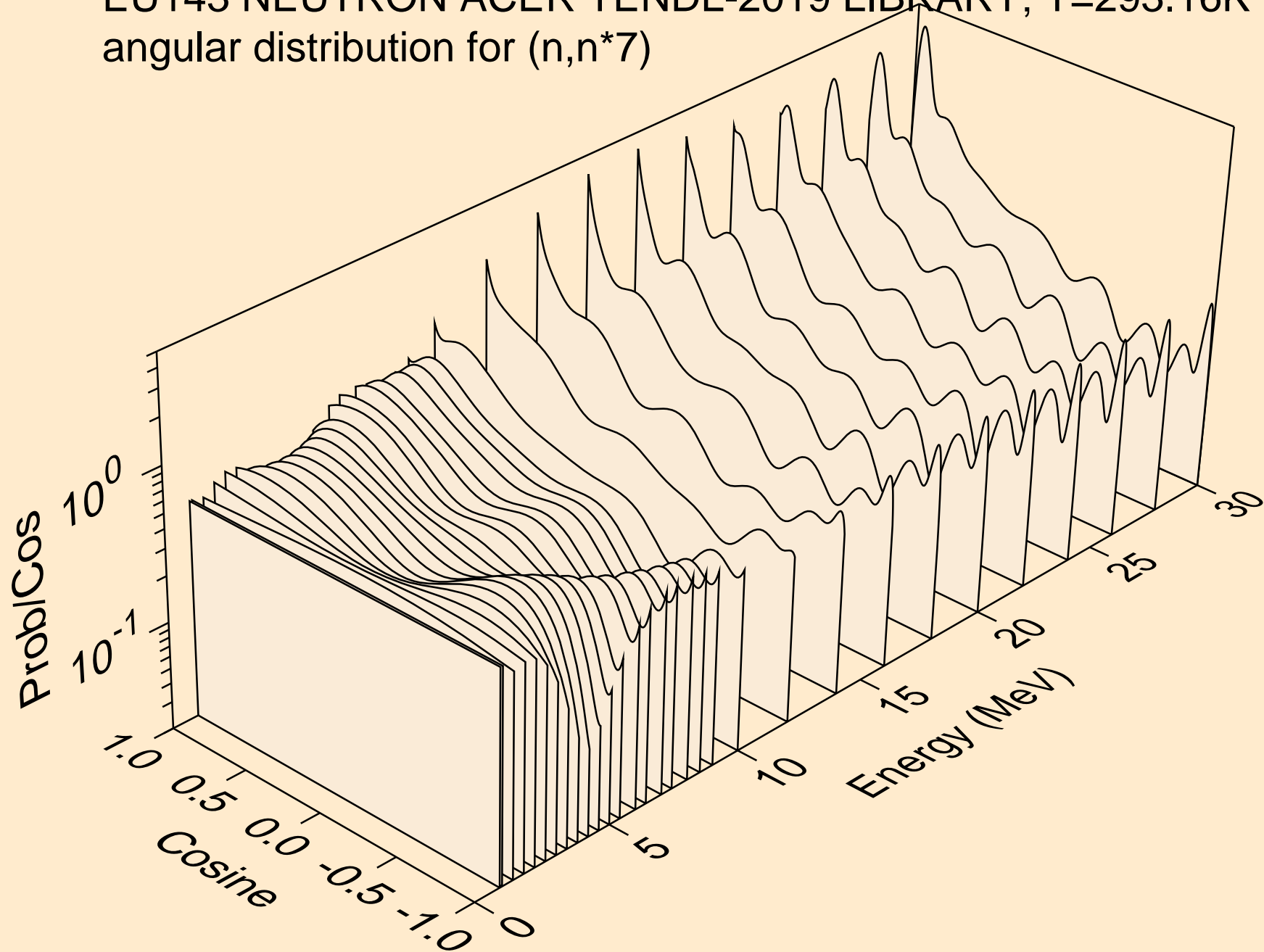
EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*5)



EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*6)

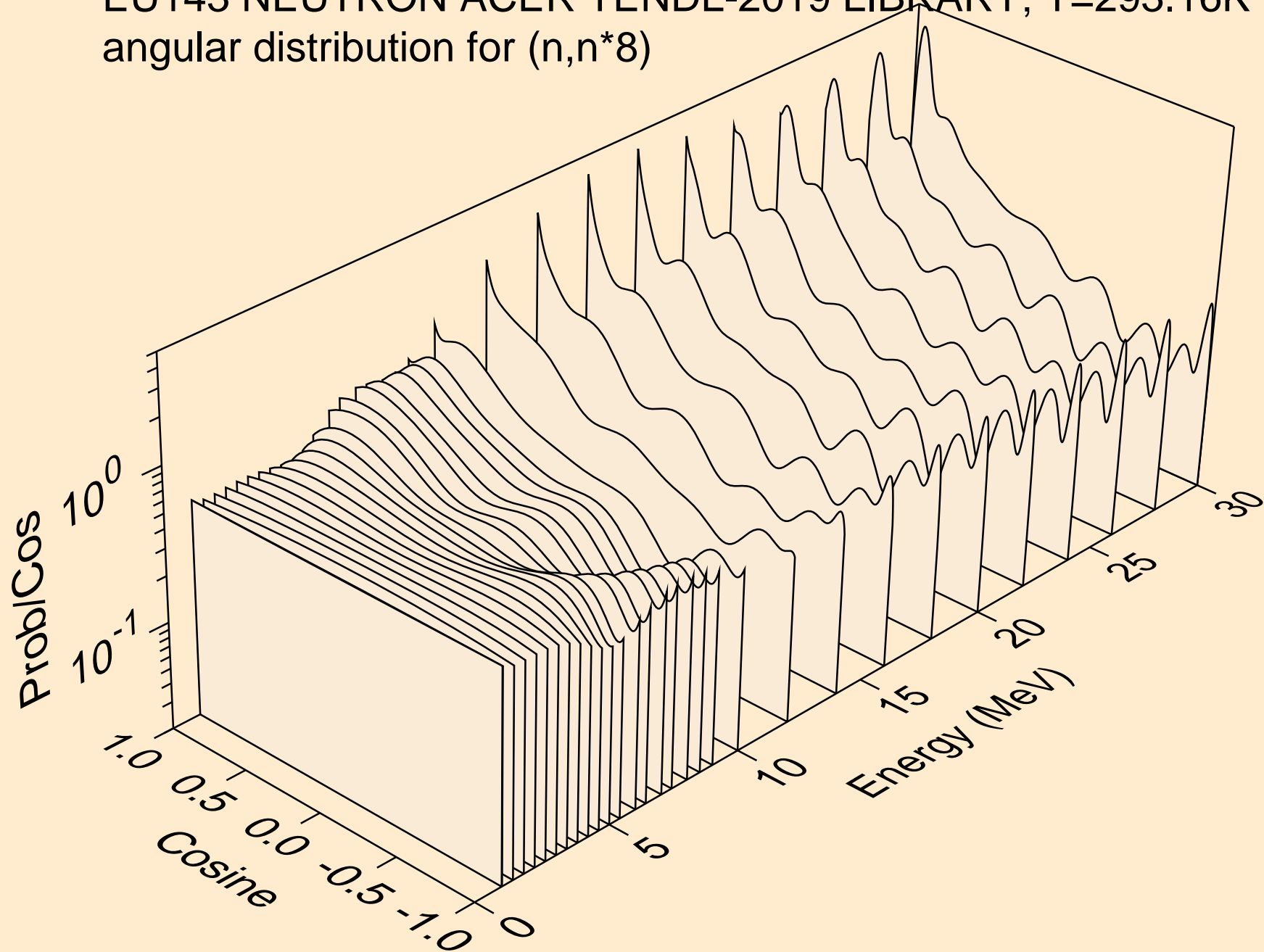


EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*7)

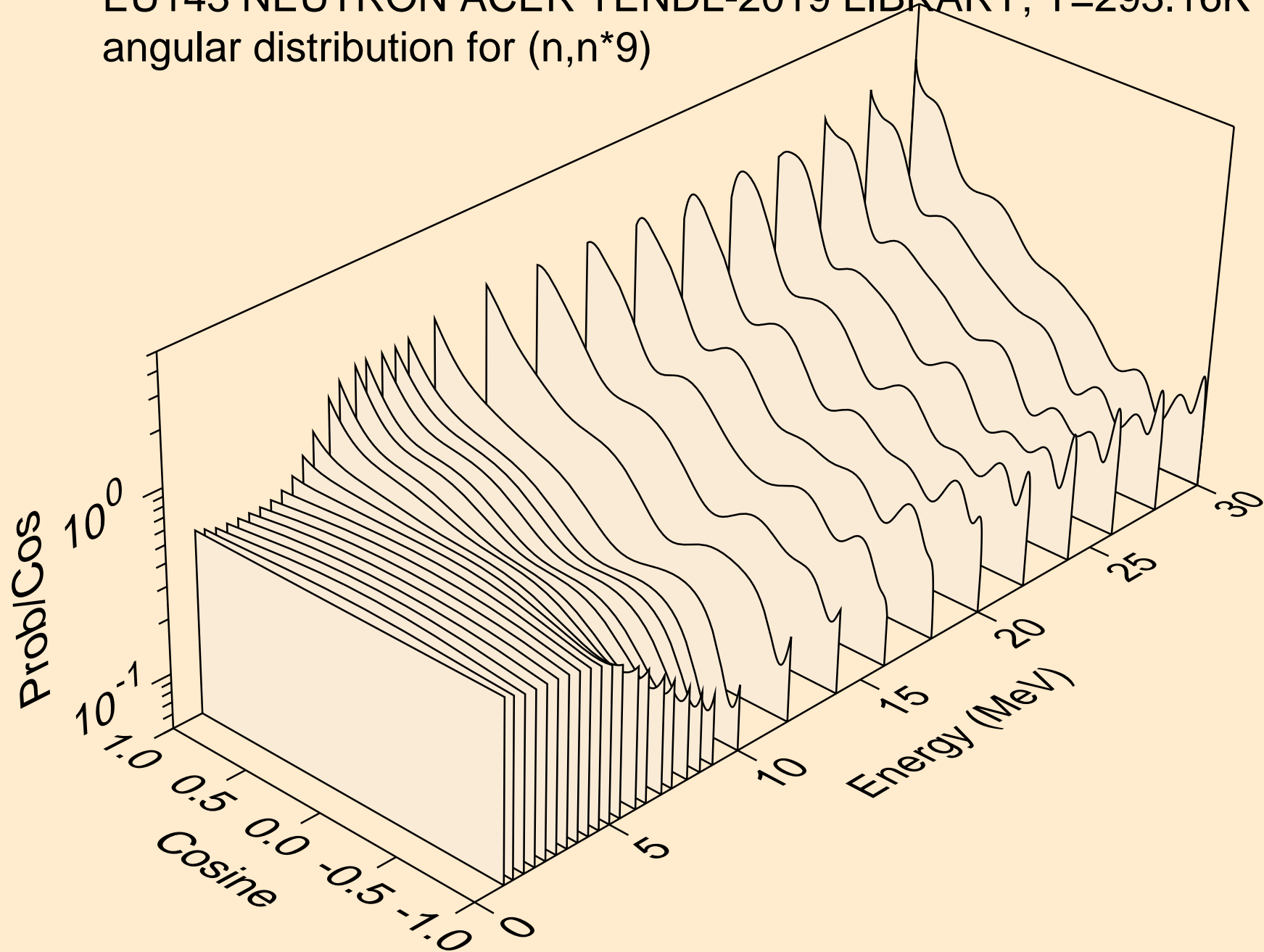




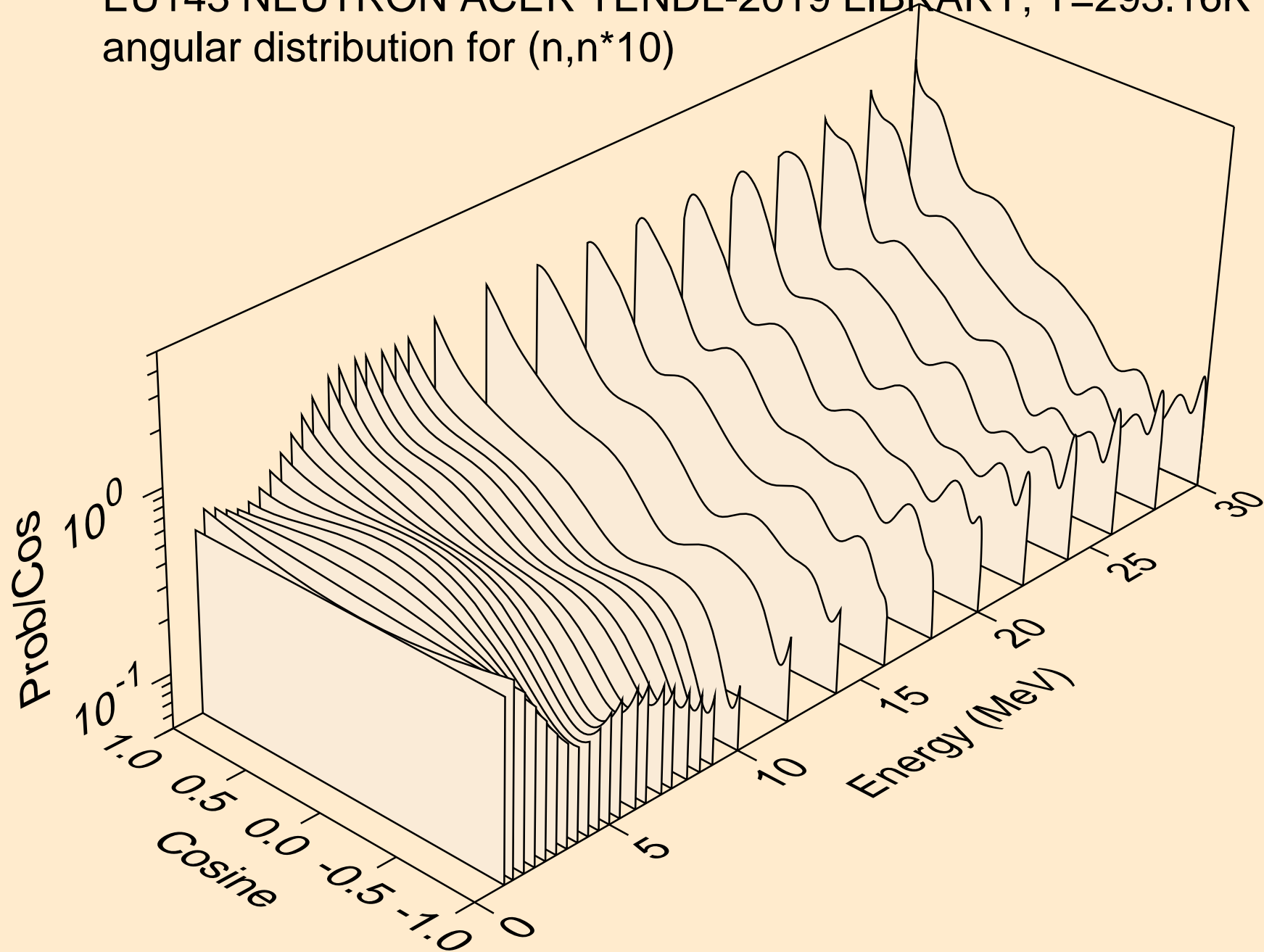
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angular distribution for (n,n\*8)



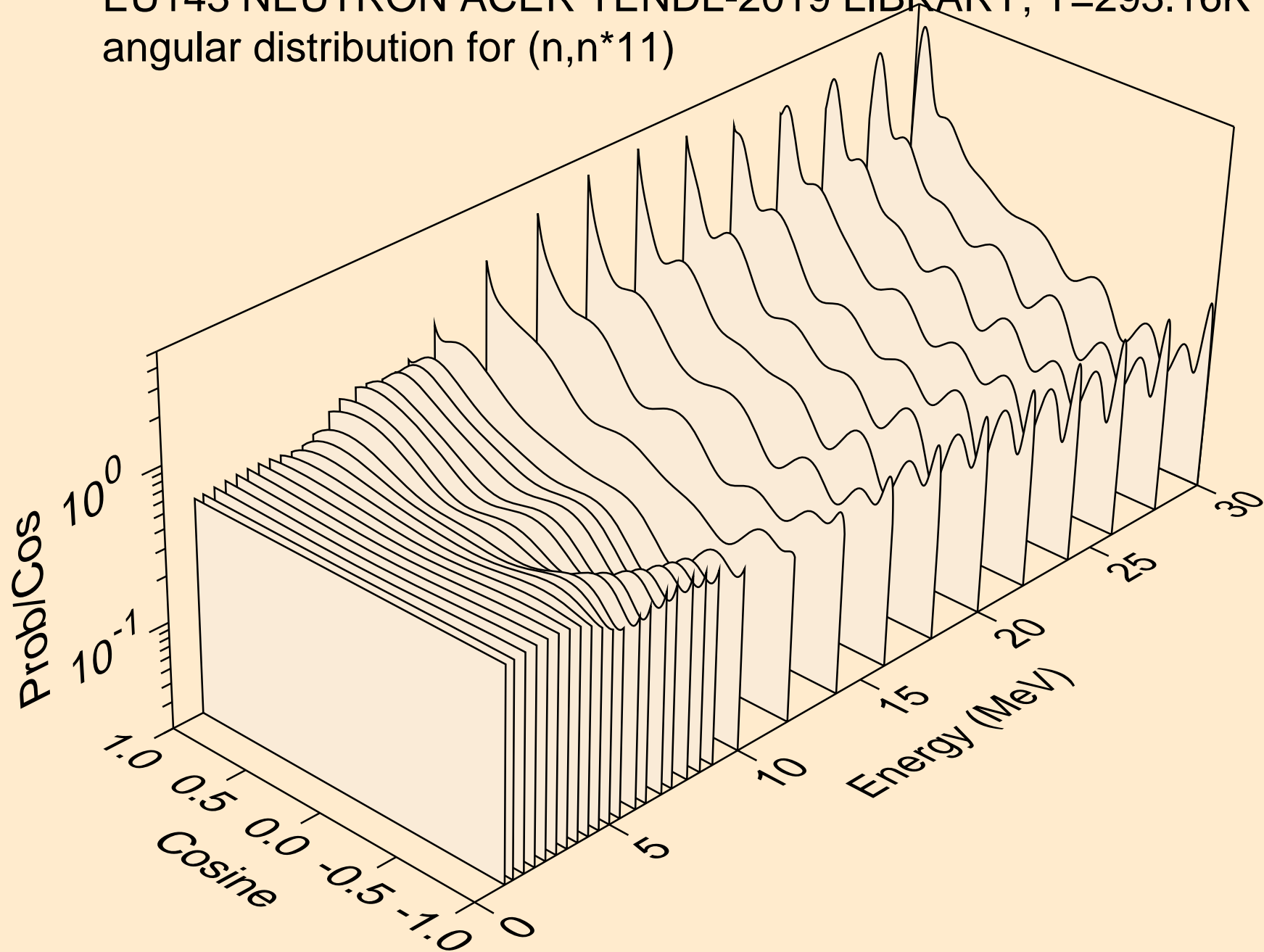
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angular distribution for (n,n\*9)



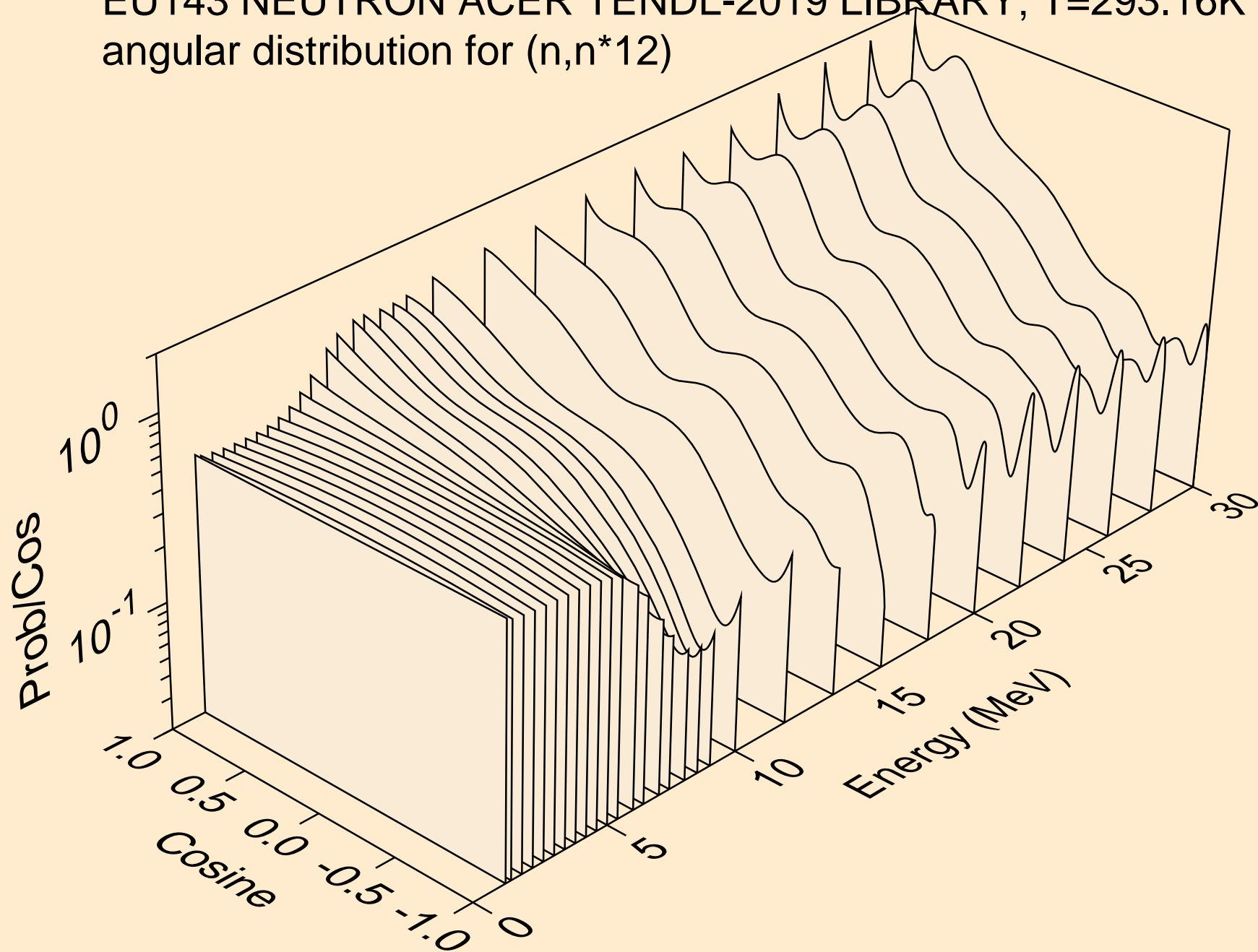
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angular distribution for (n,n\*10)



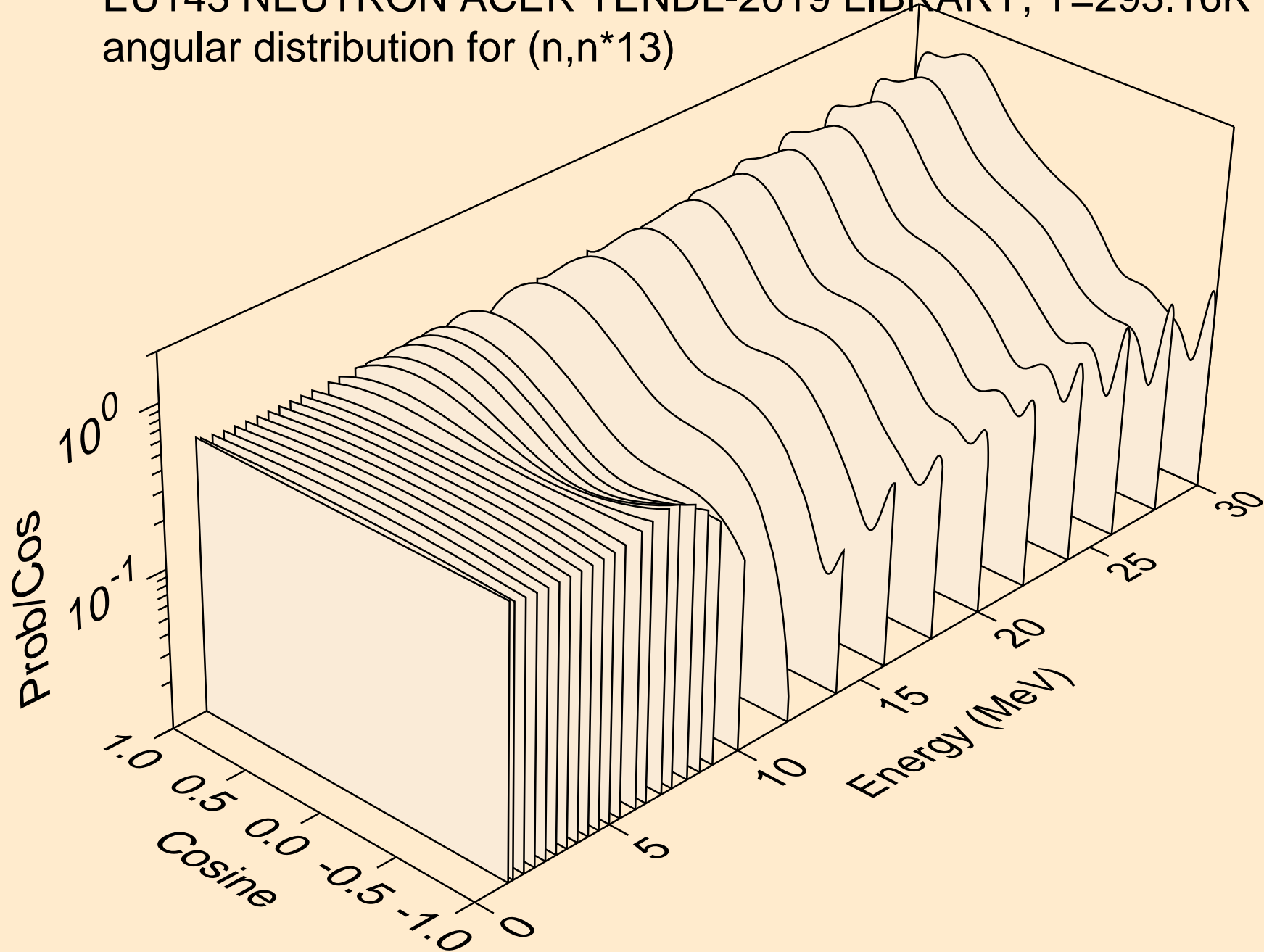
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angular distribution for (n,n\*11)



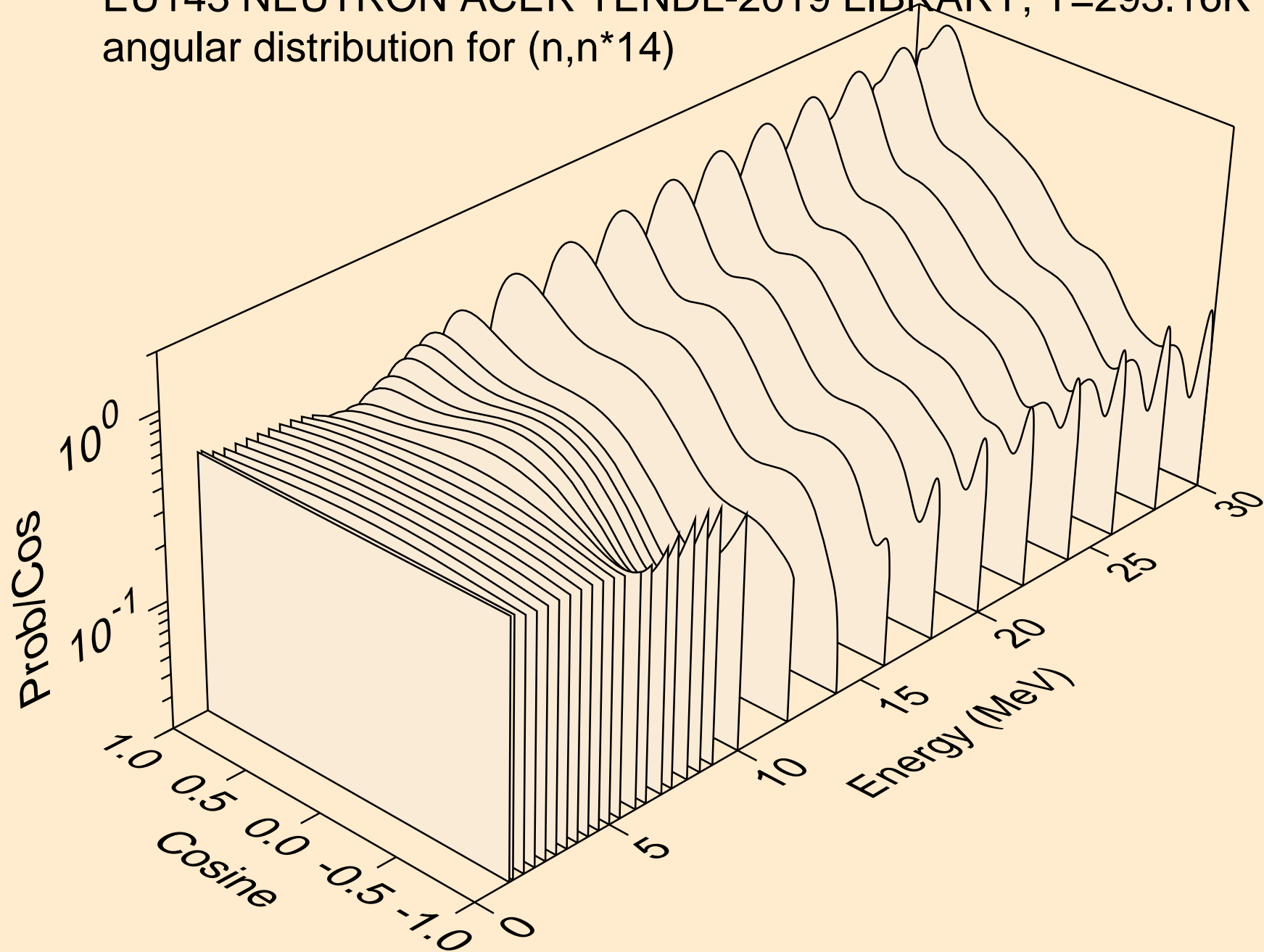
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angular distribution for (n,n\*12)



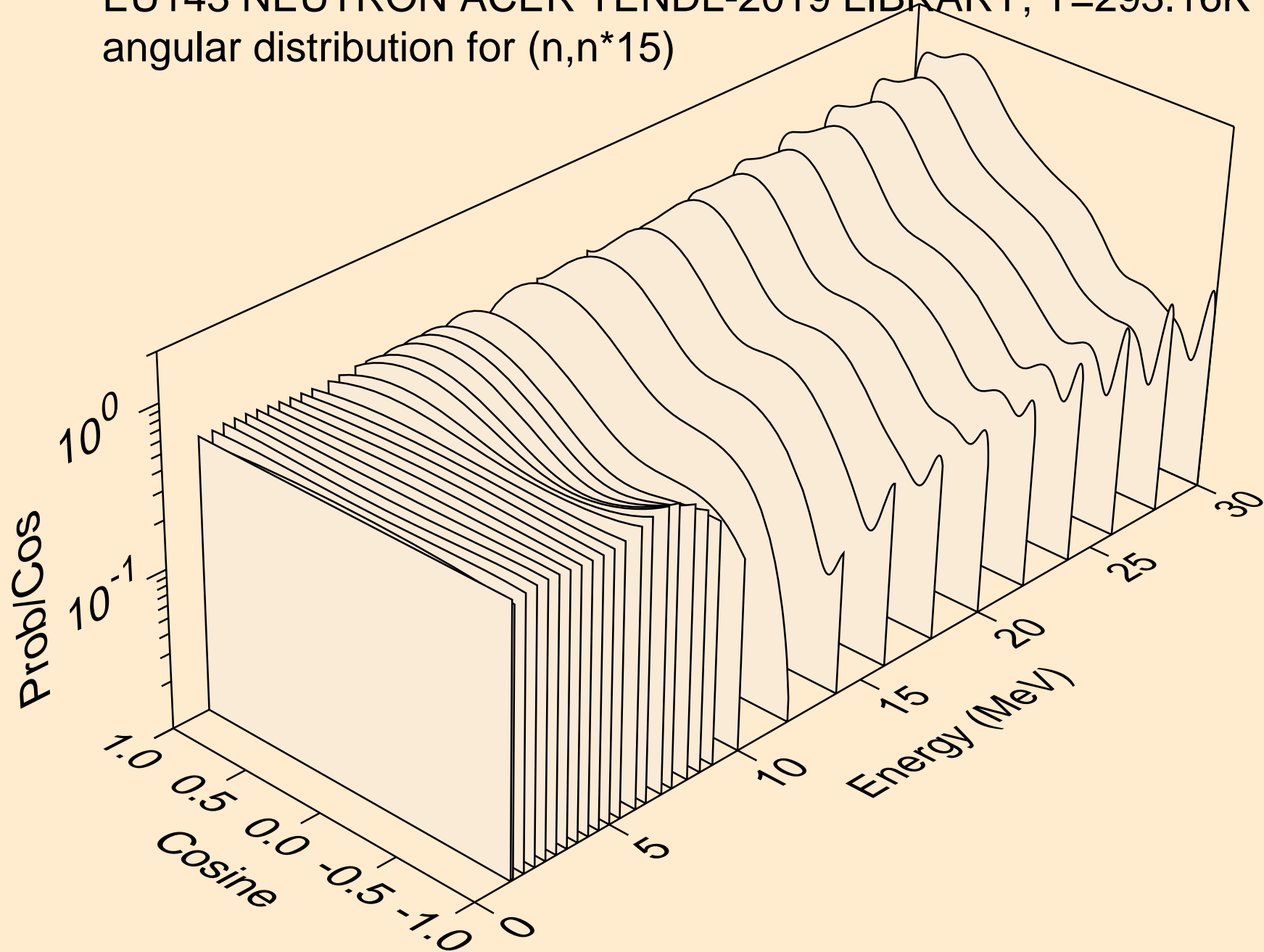
EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*13)



EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*14)

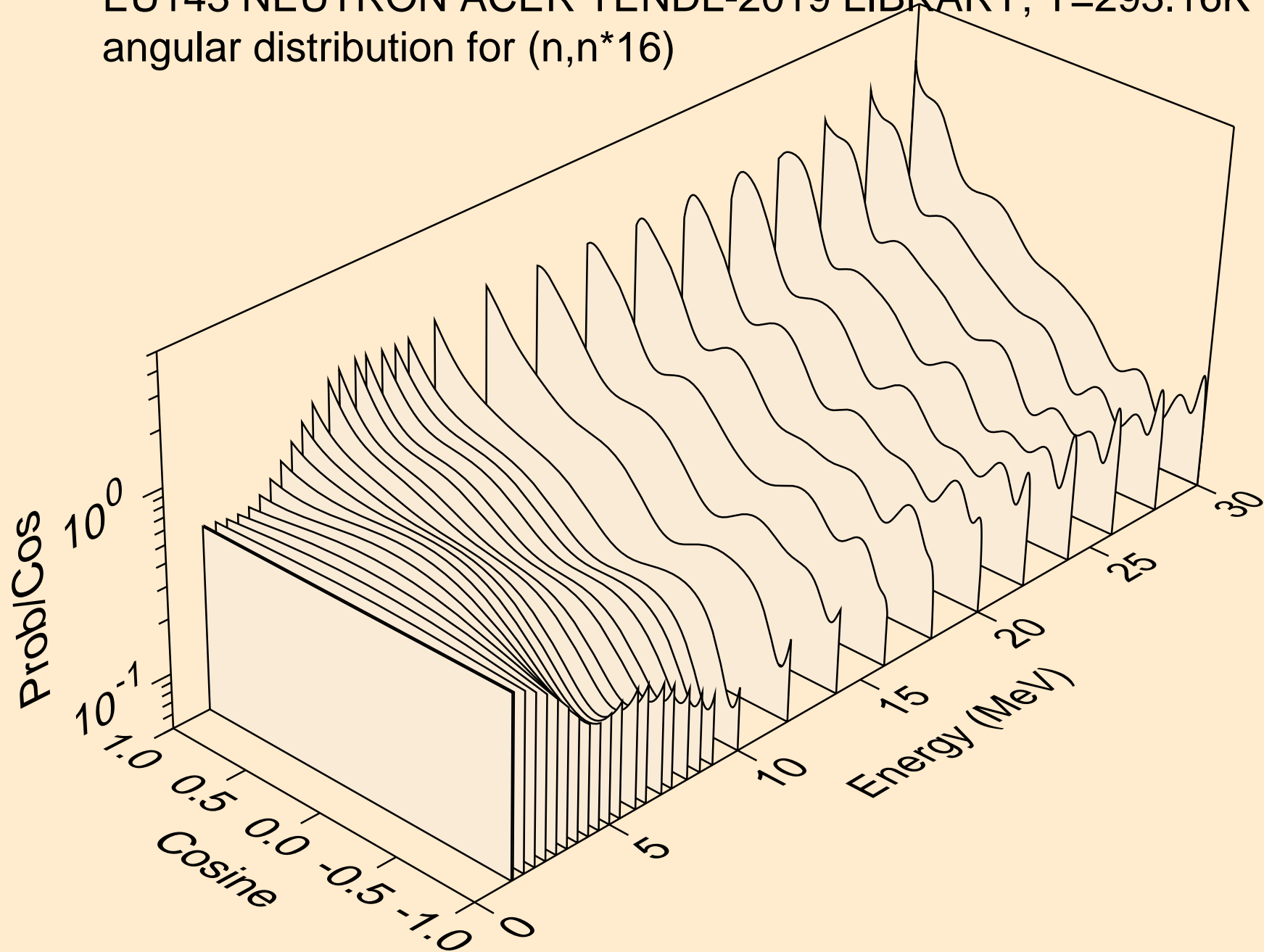


EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*15)

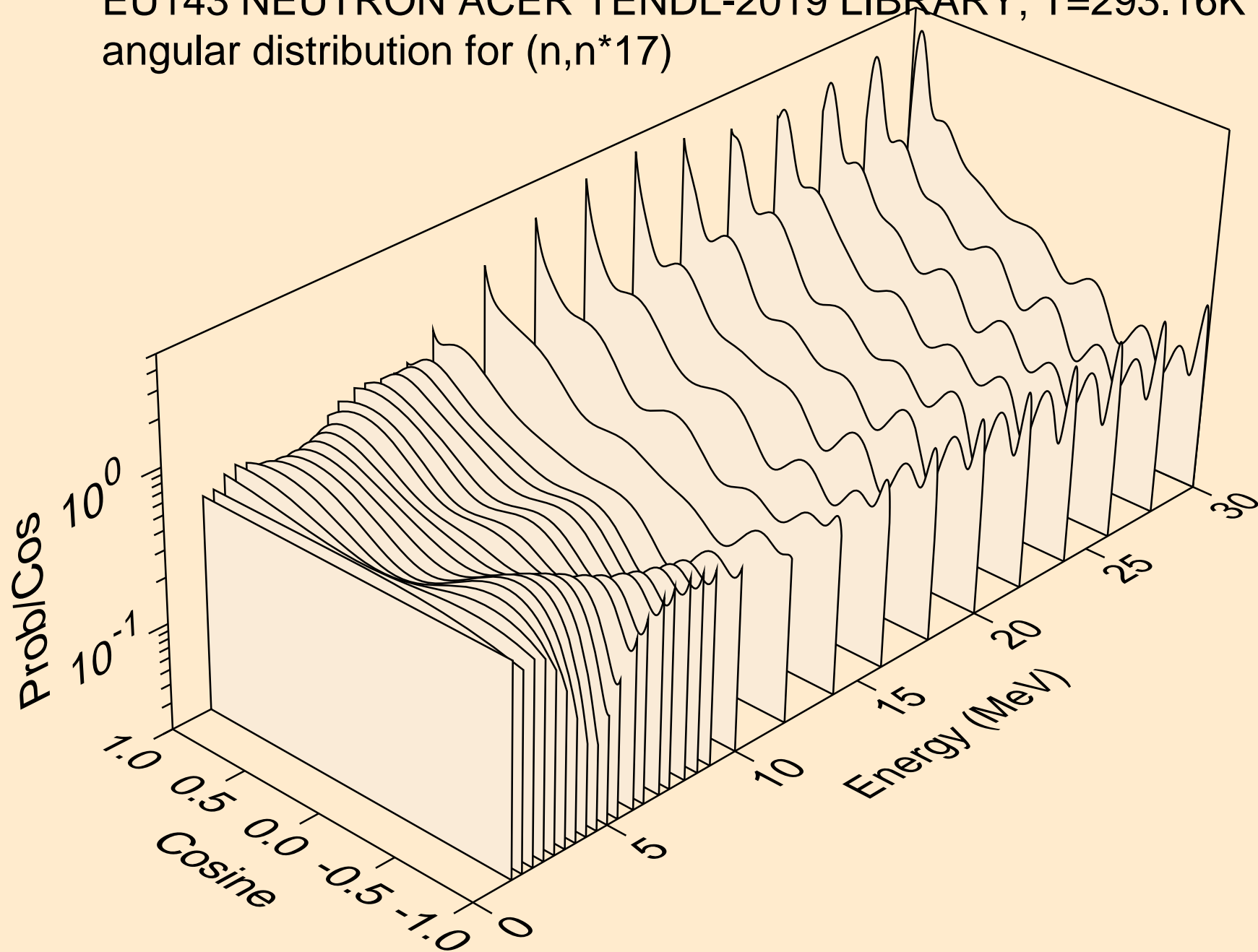




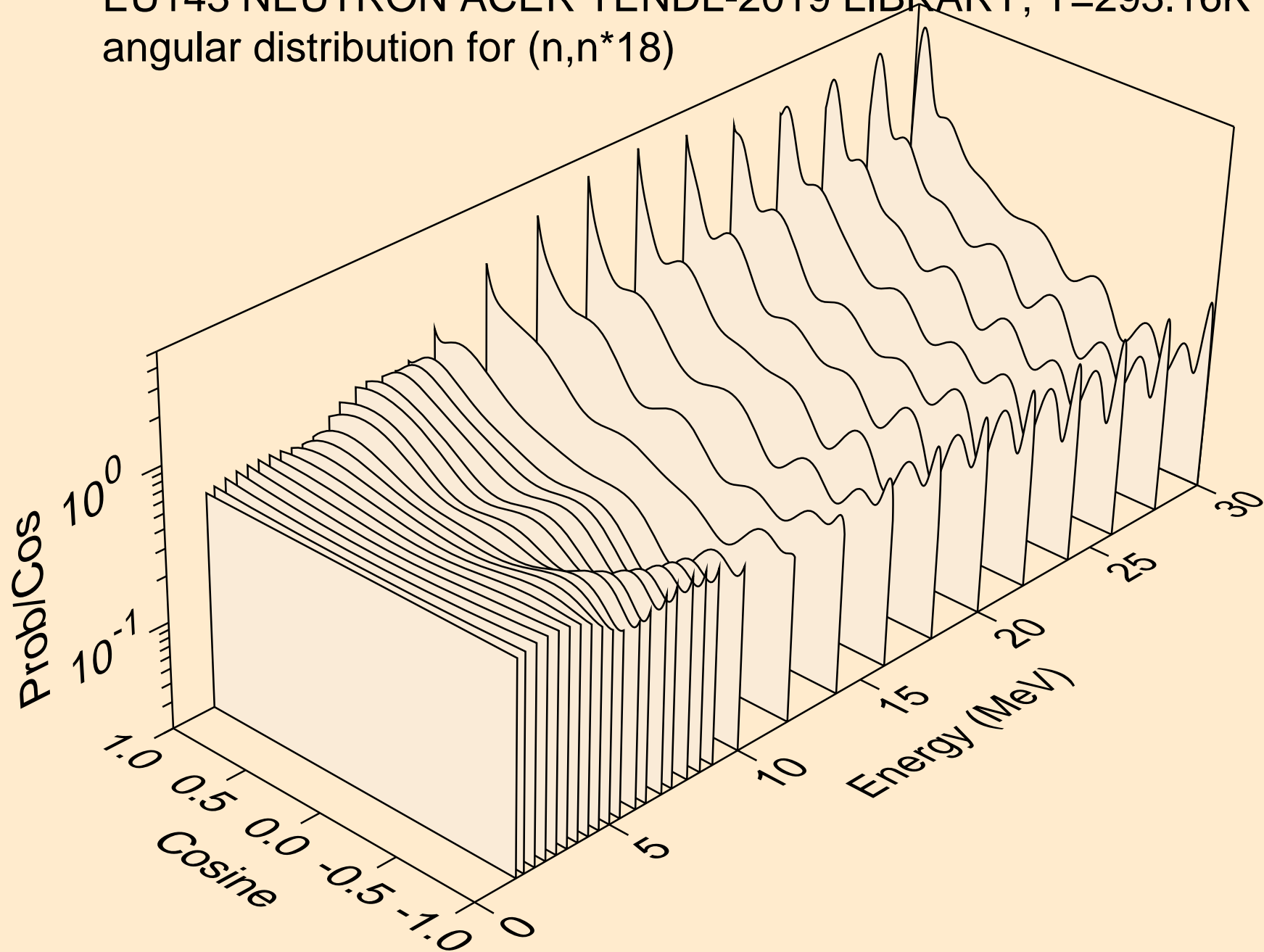
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angular distribution for (n,n\*16)



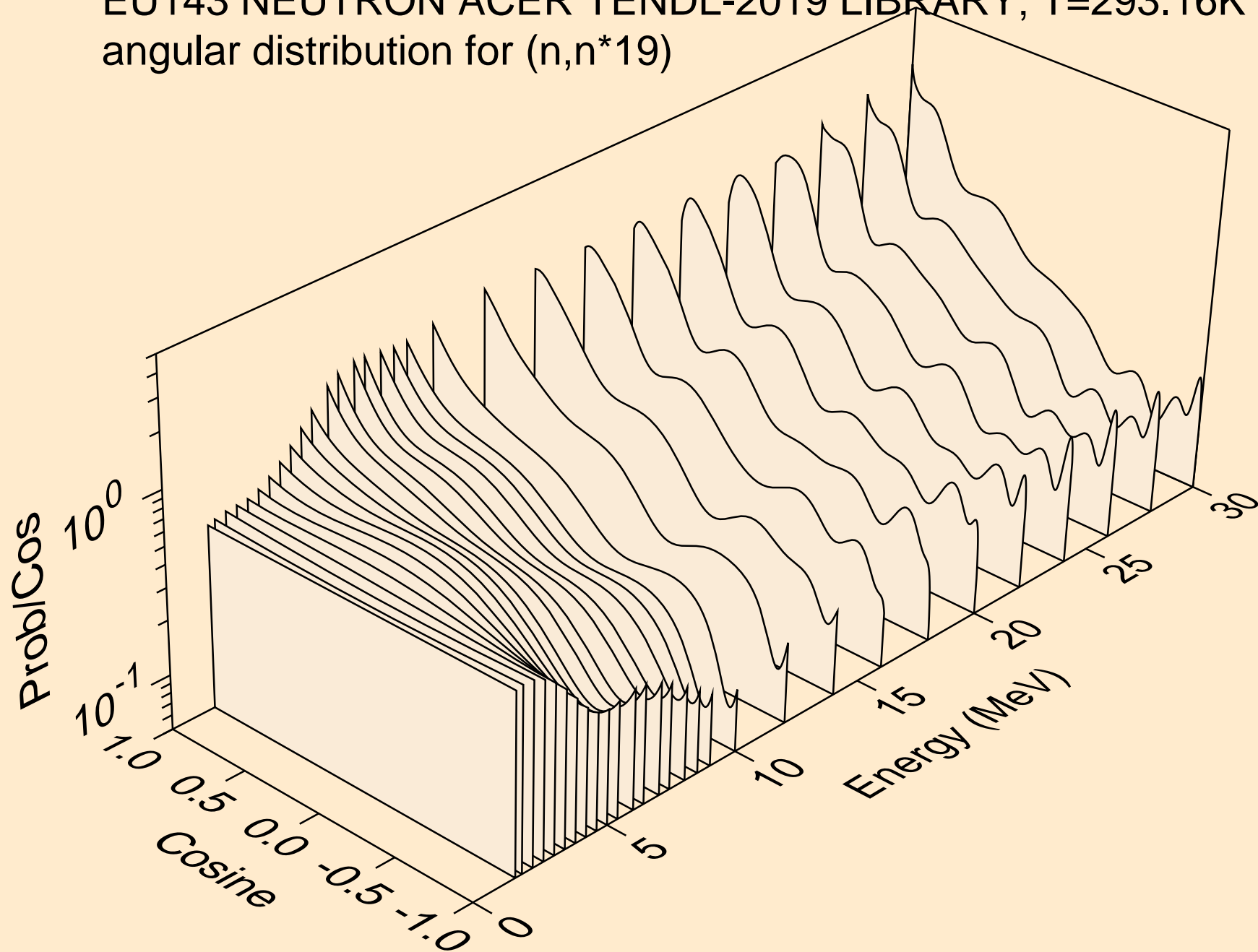
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angular distribution for (n,n\*17)



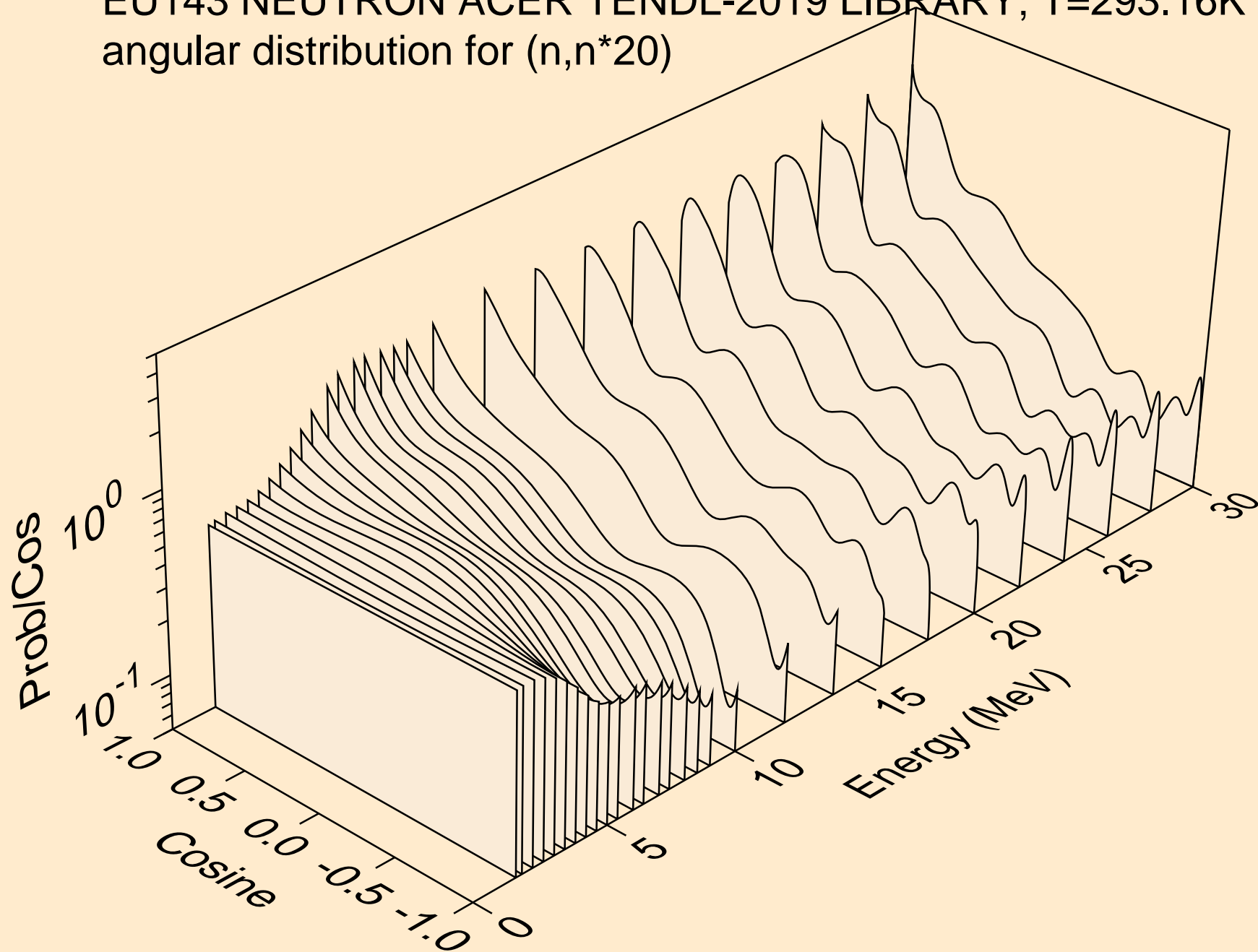
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angular distribution for (n,n\*18)



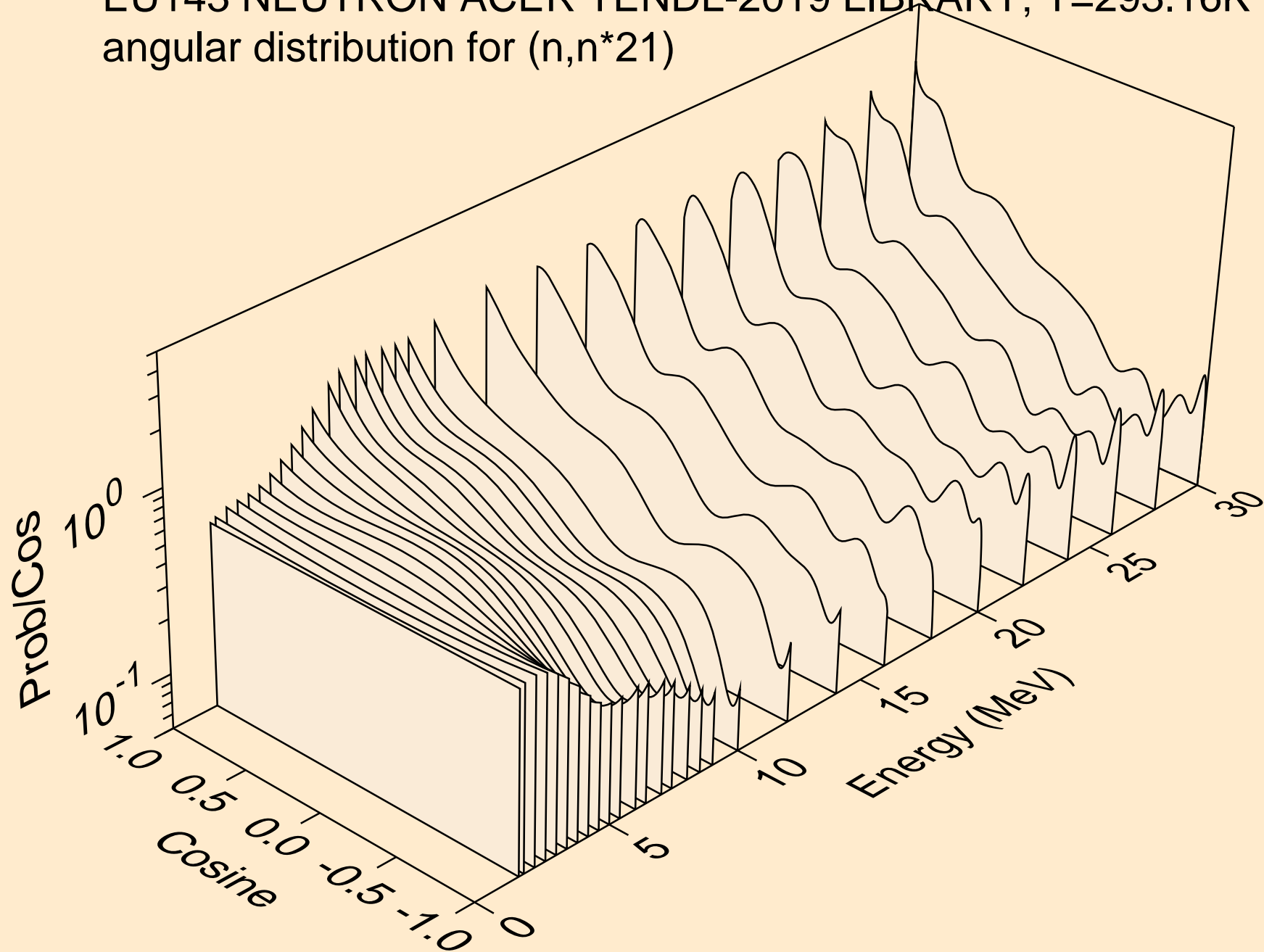
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angular distribution for (n,n\*19)



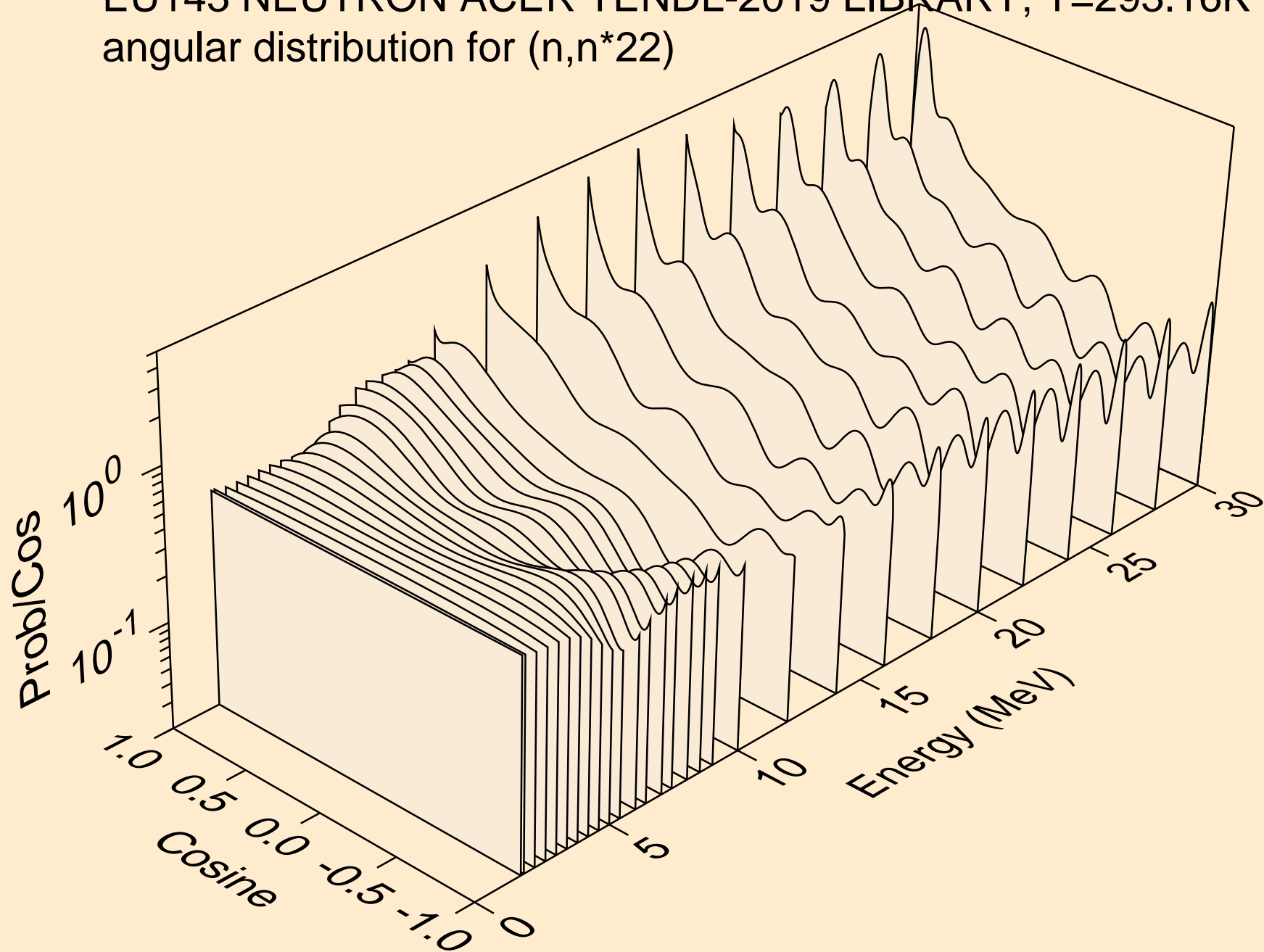
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angular distribution for (n,n\*20)



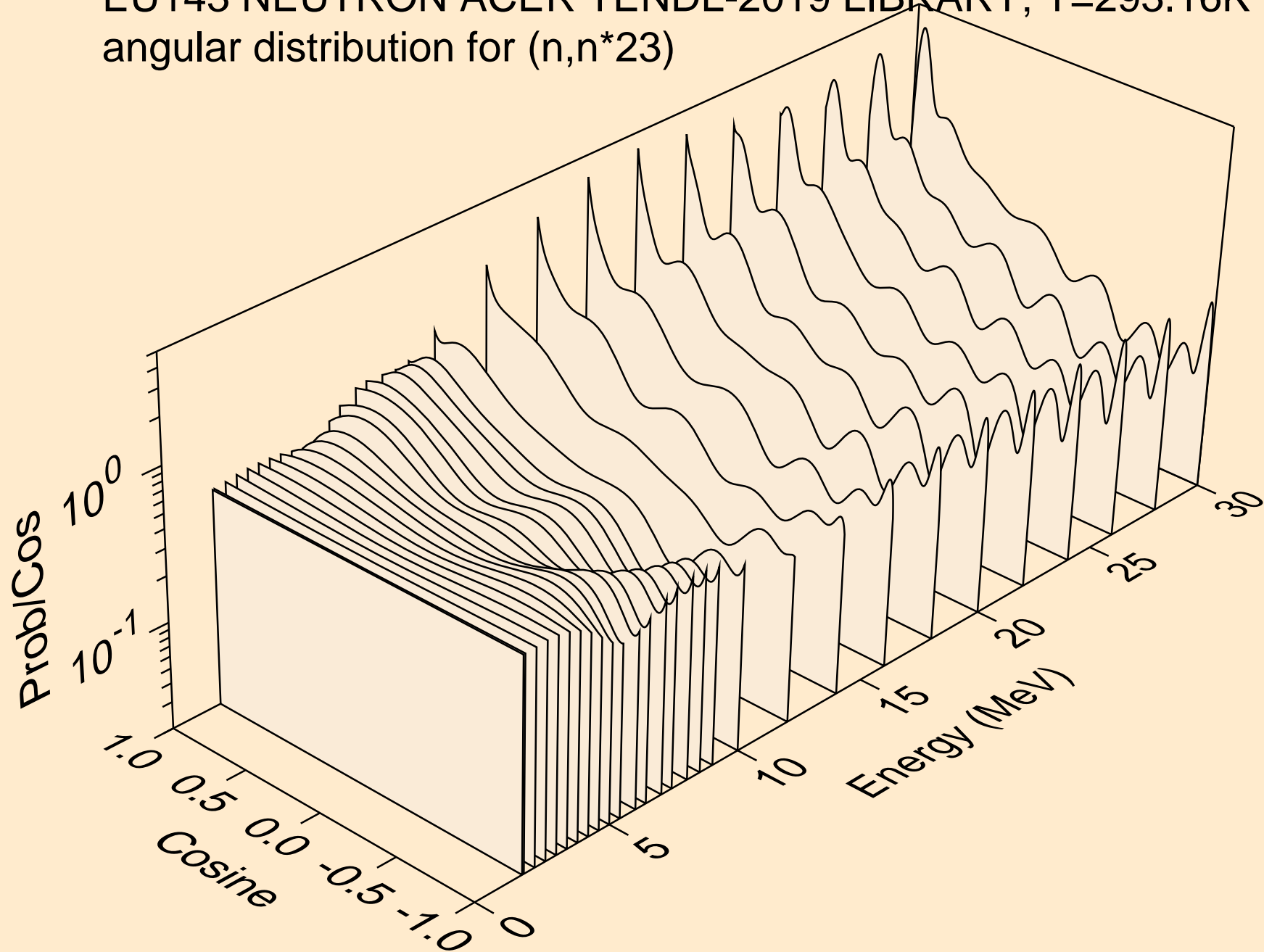
EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*21)



EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*22)

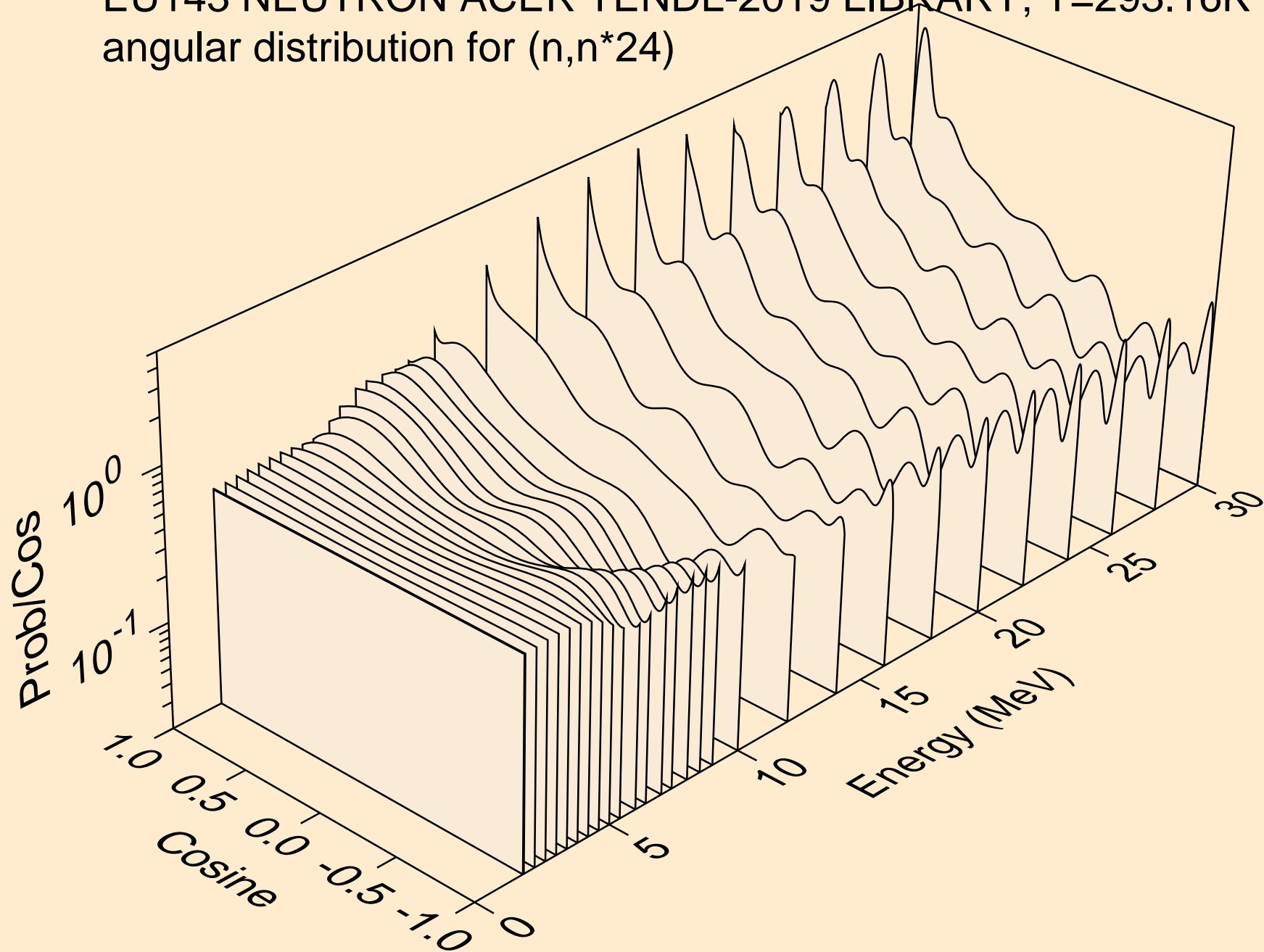


EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*23)

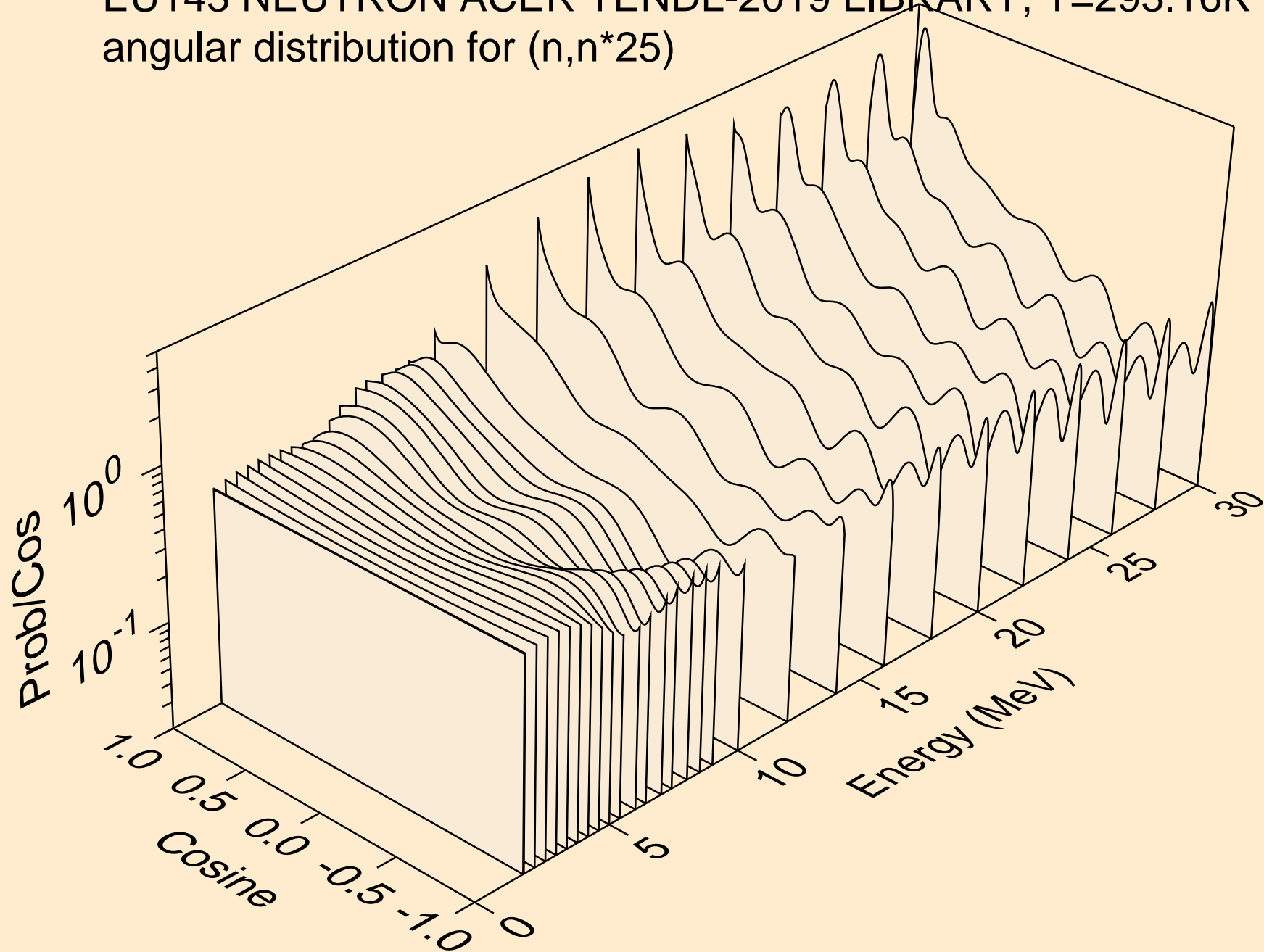




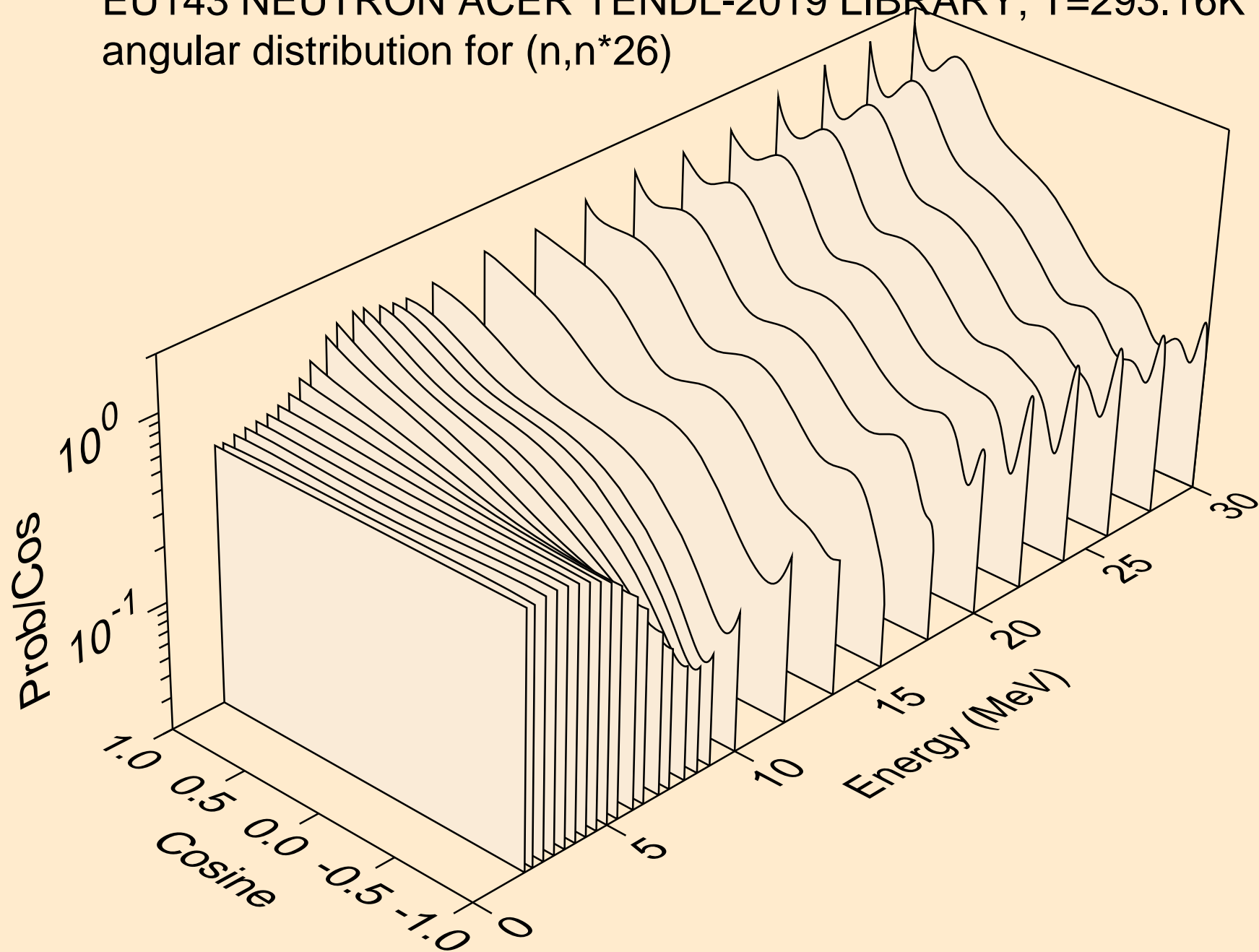
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angular distribution for (n,n\*24)



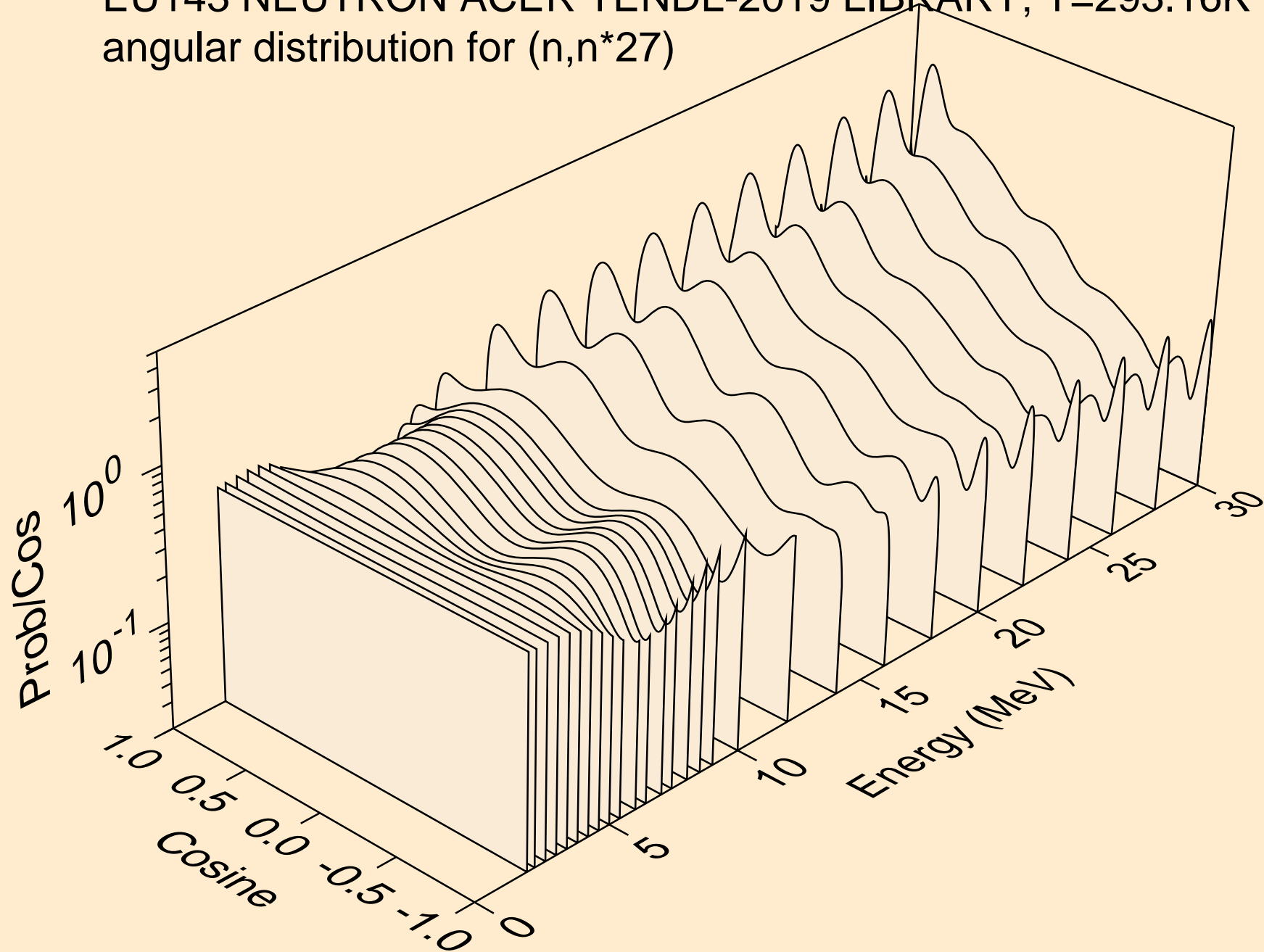
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angular distribution for (n,n\*25)



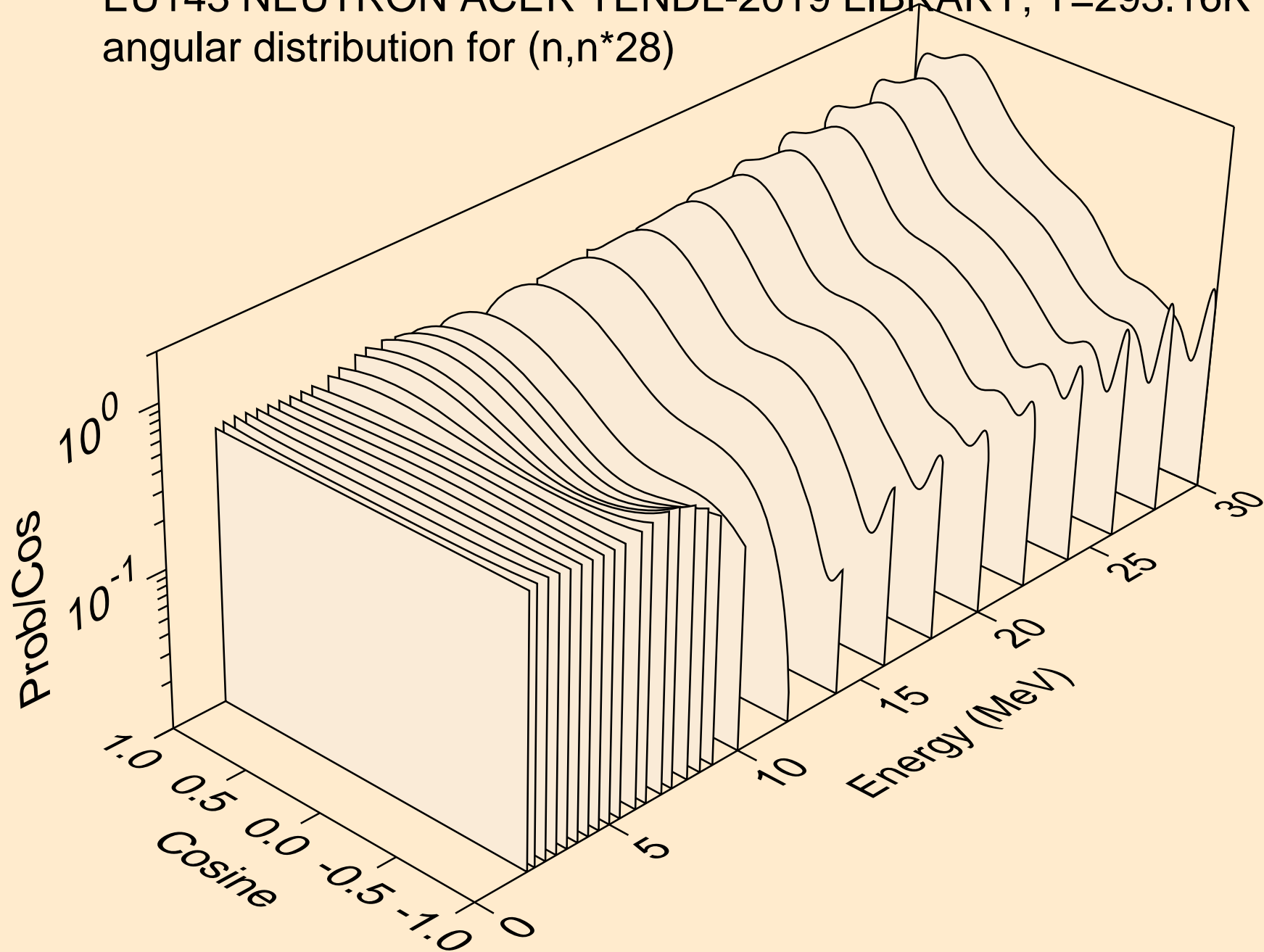
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angular distribution for (n,n\*26)



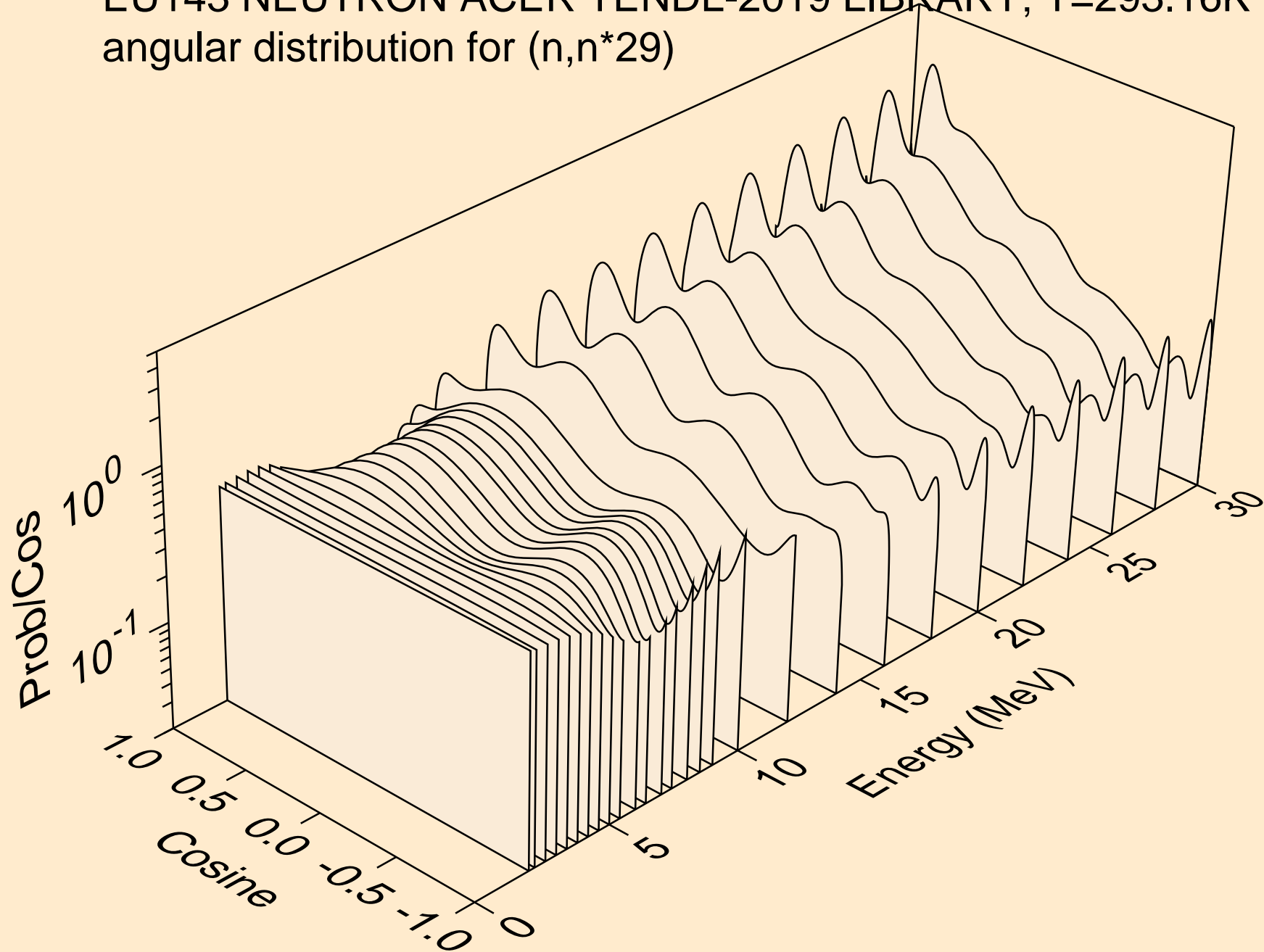
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angular distribution for (n,n\*27)



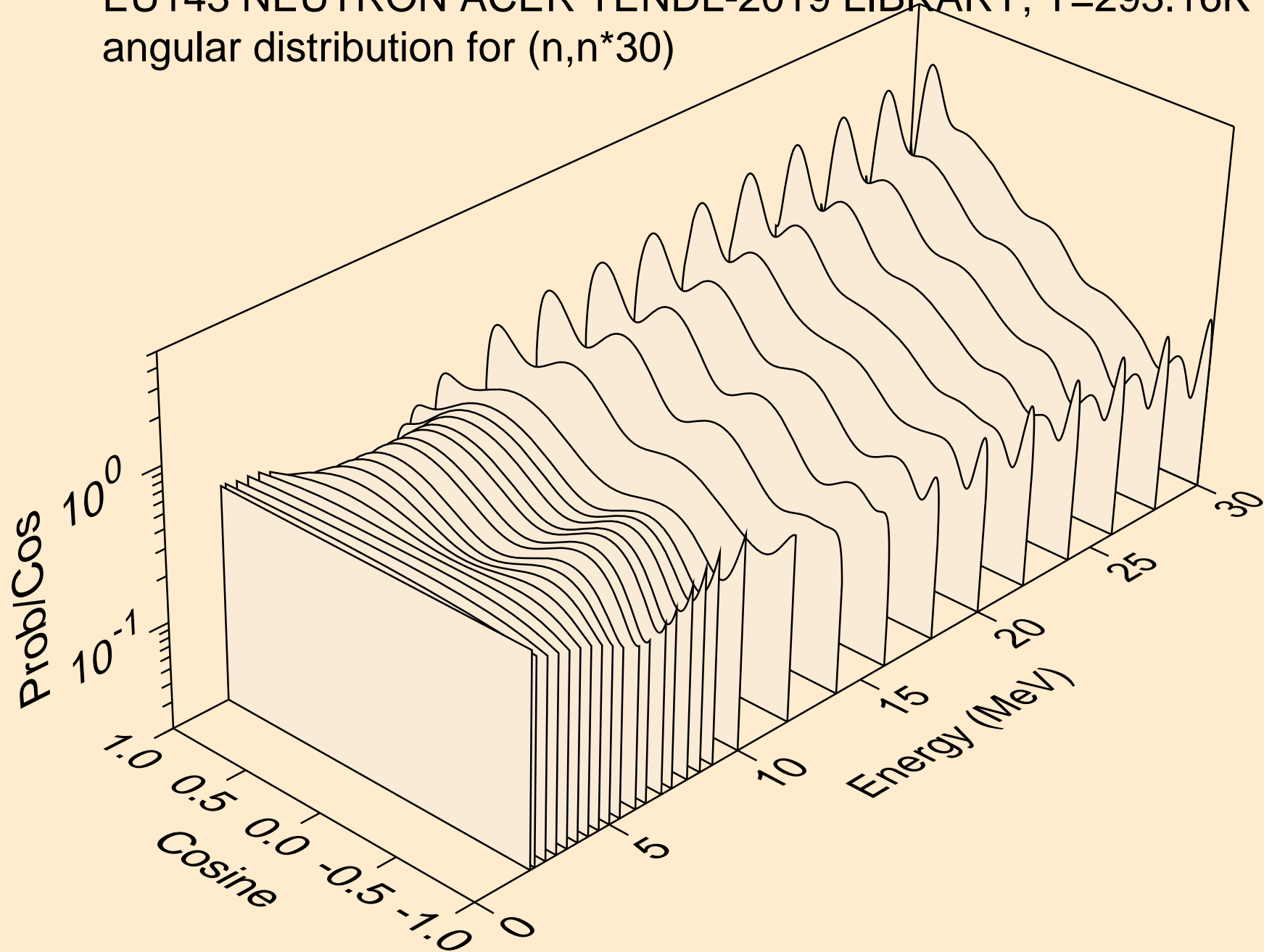
EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*28)



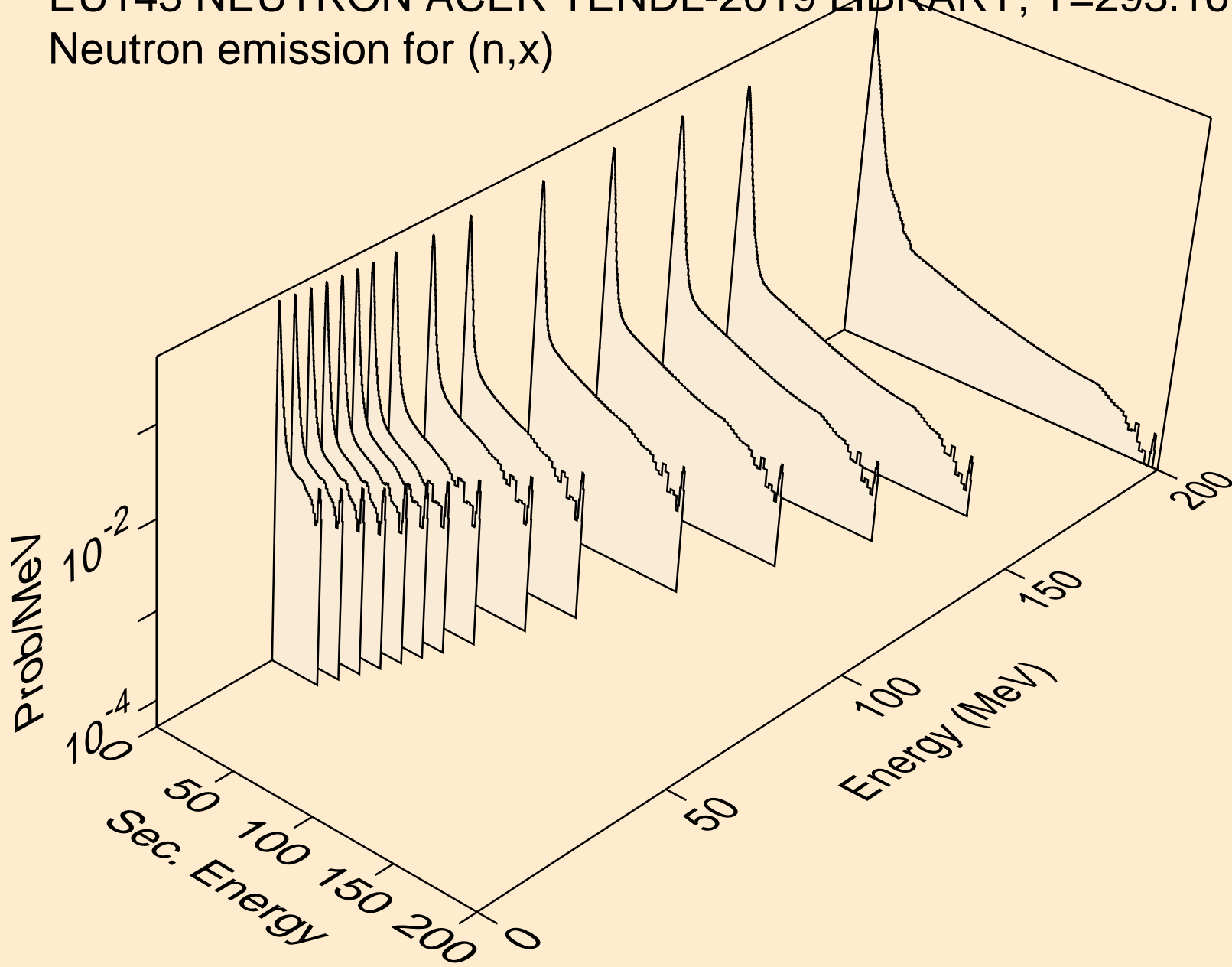
EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*29)



EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*30)

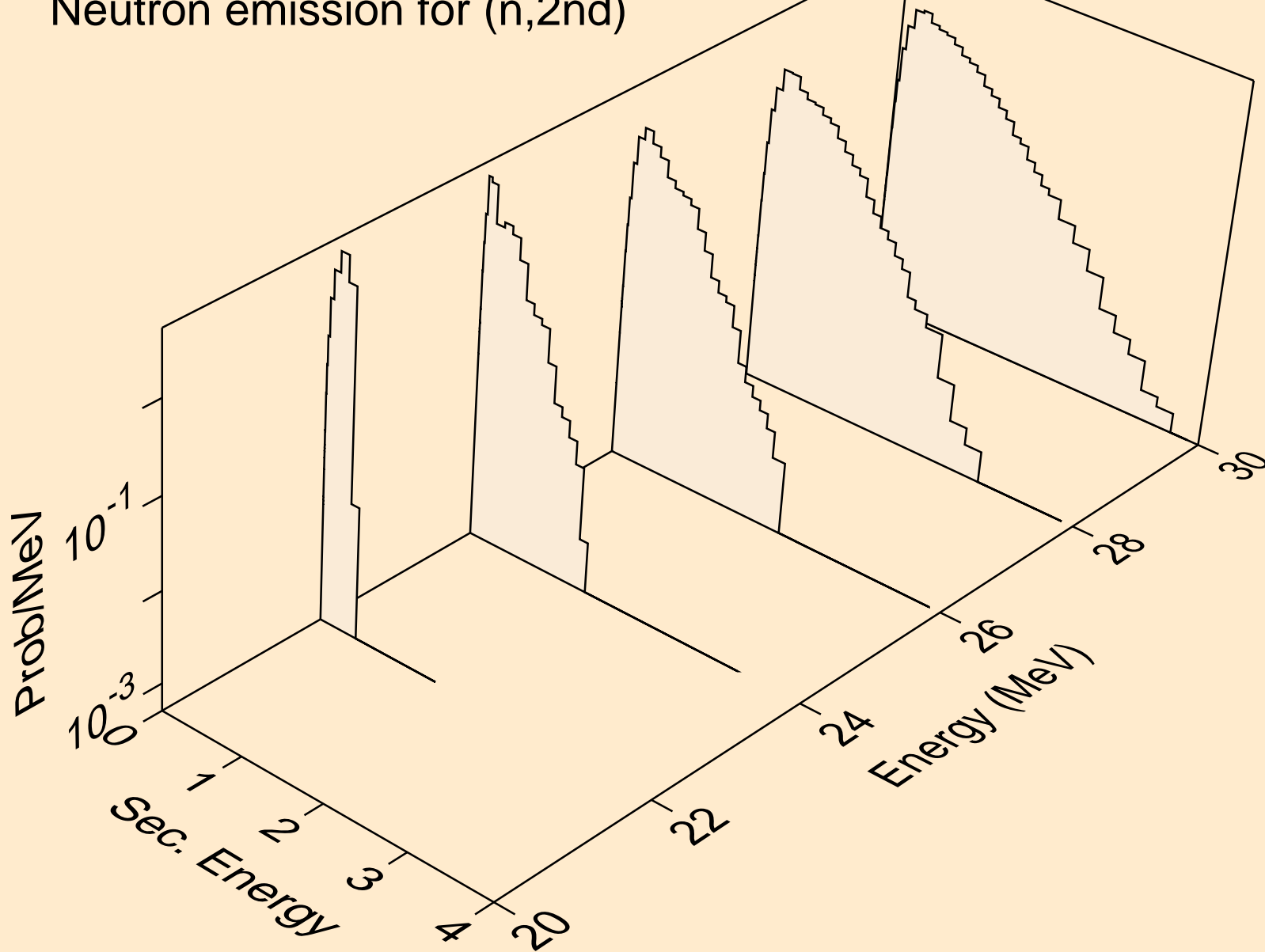


EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,x)

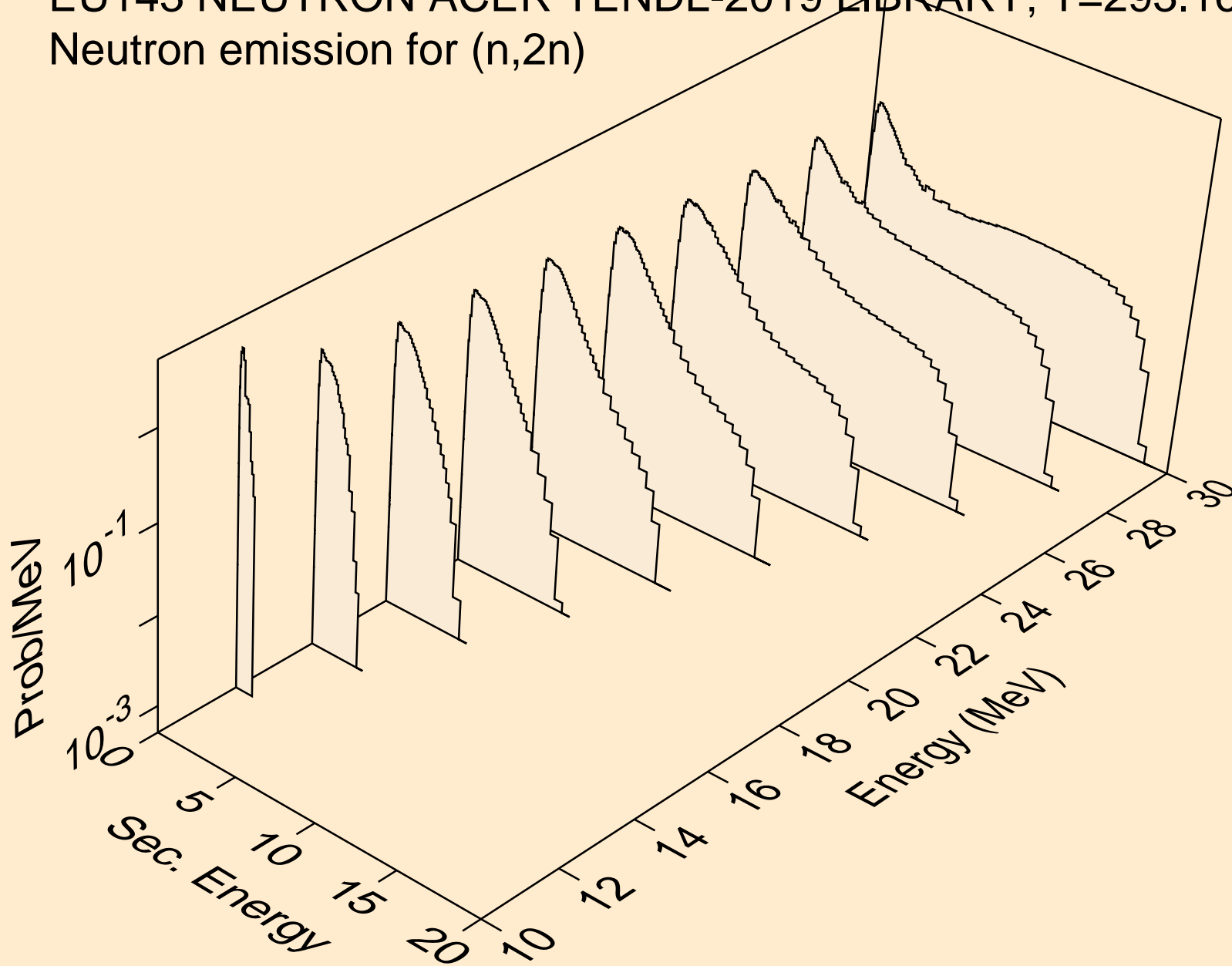




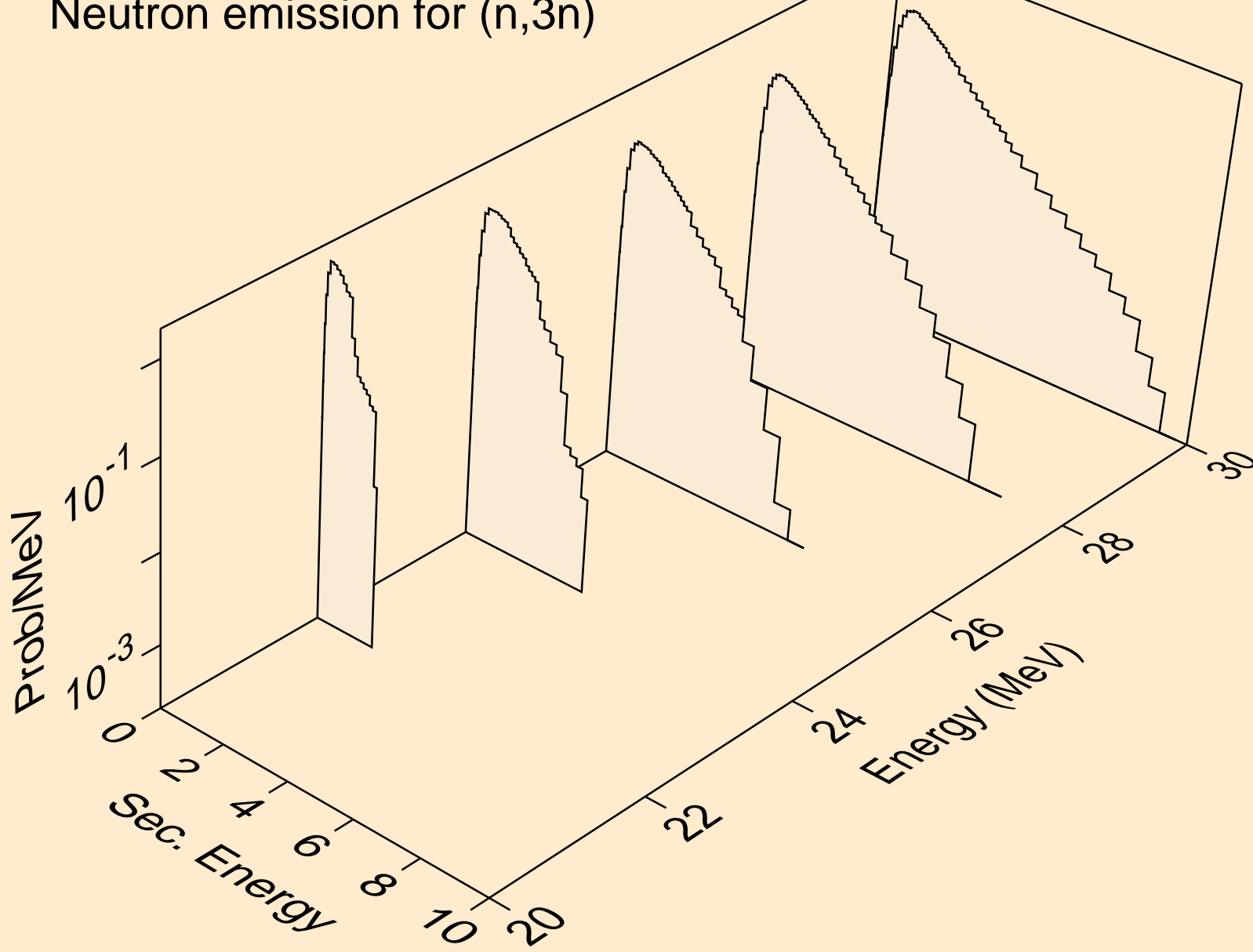
EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2nd)



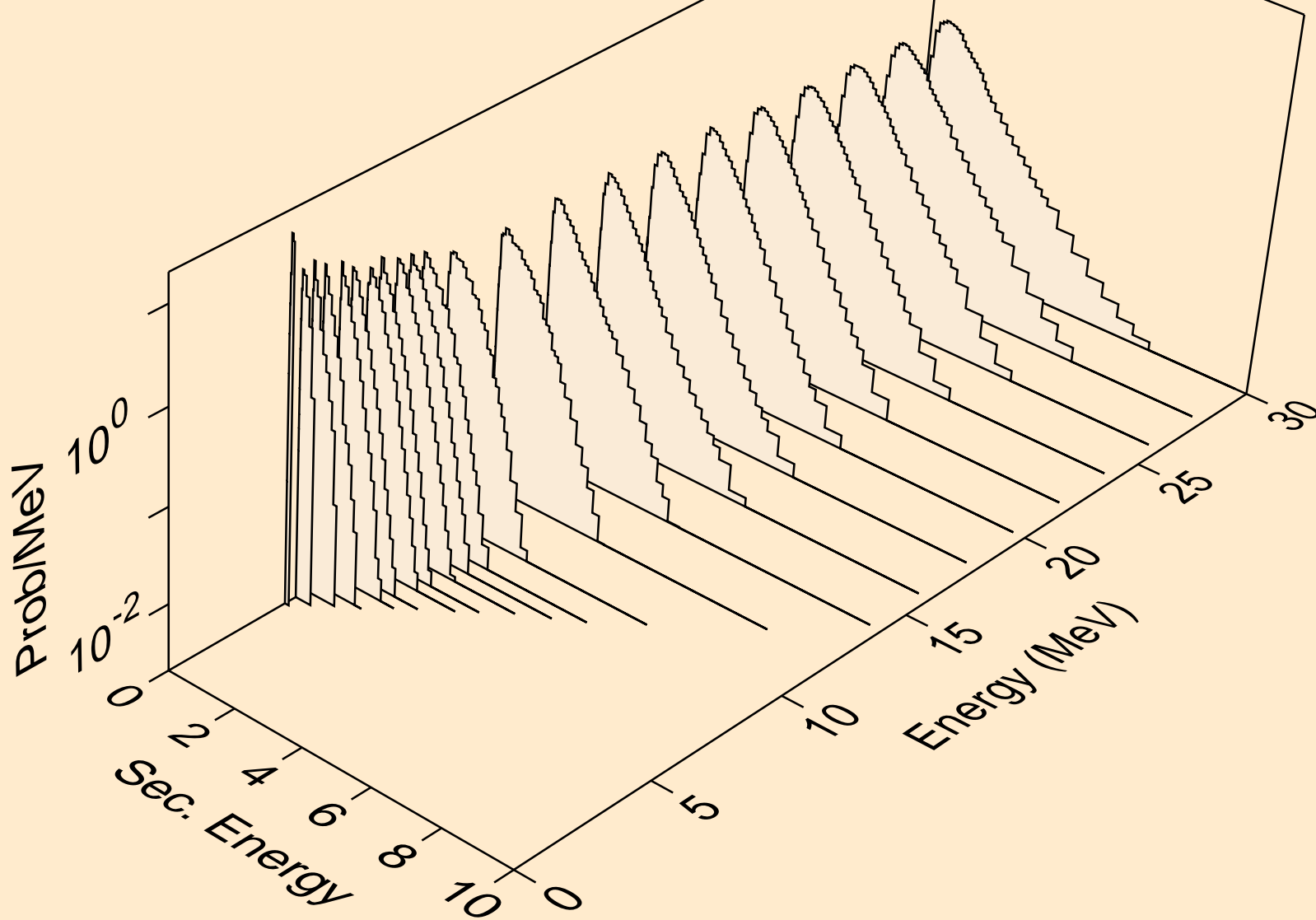
EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2n)



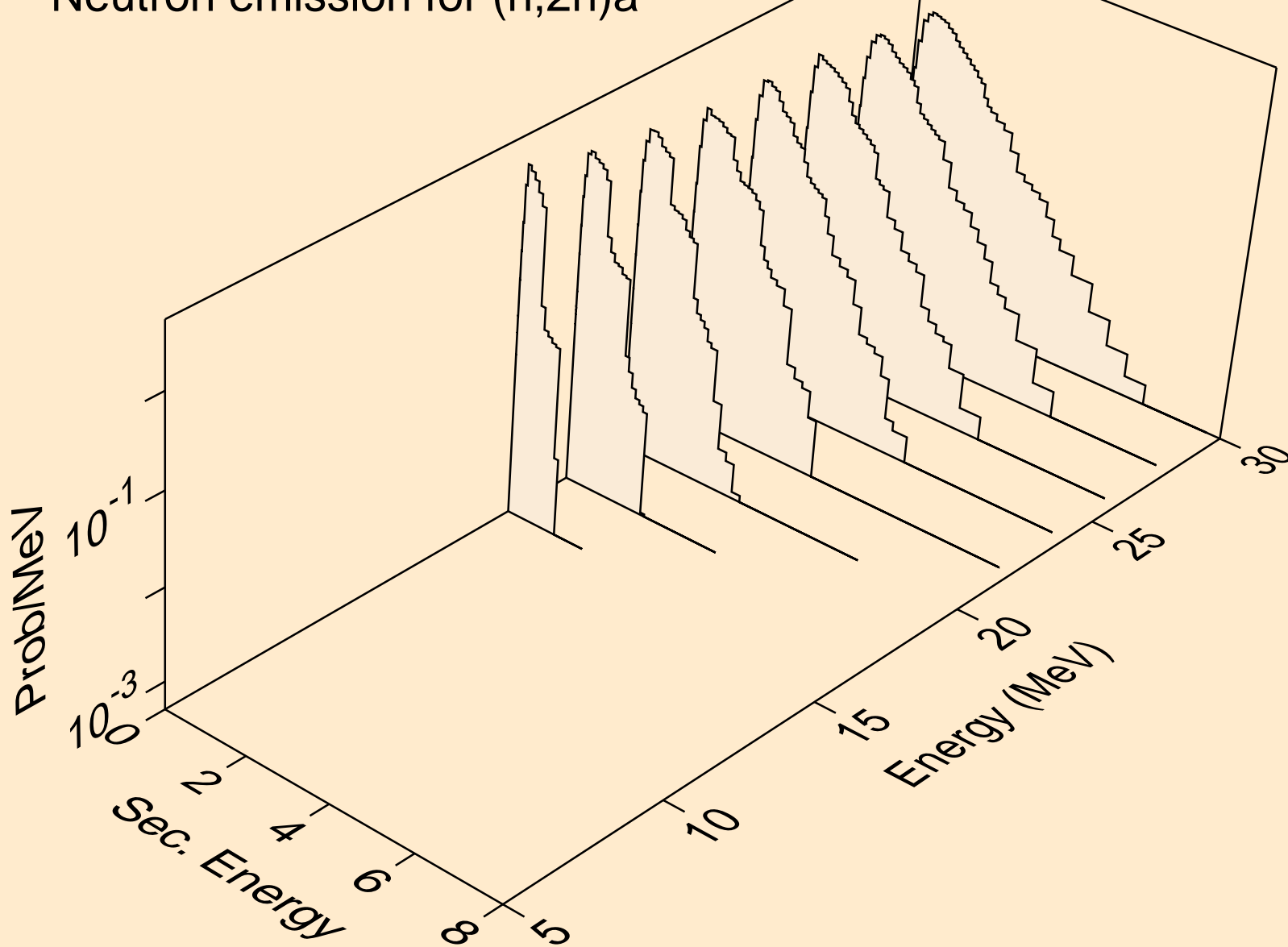
EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3n)



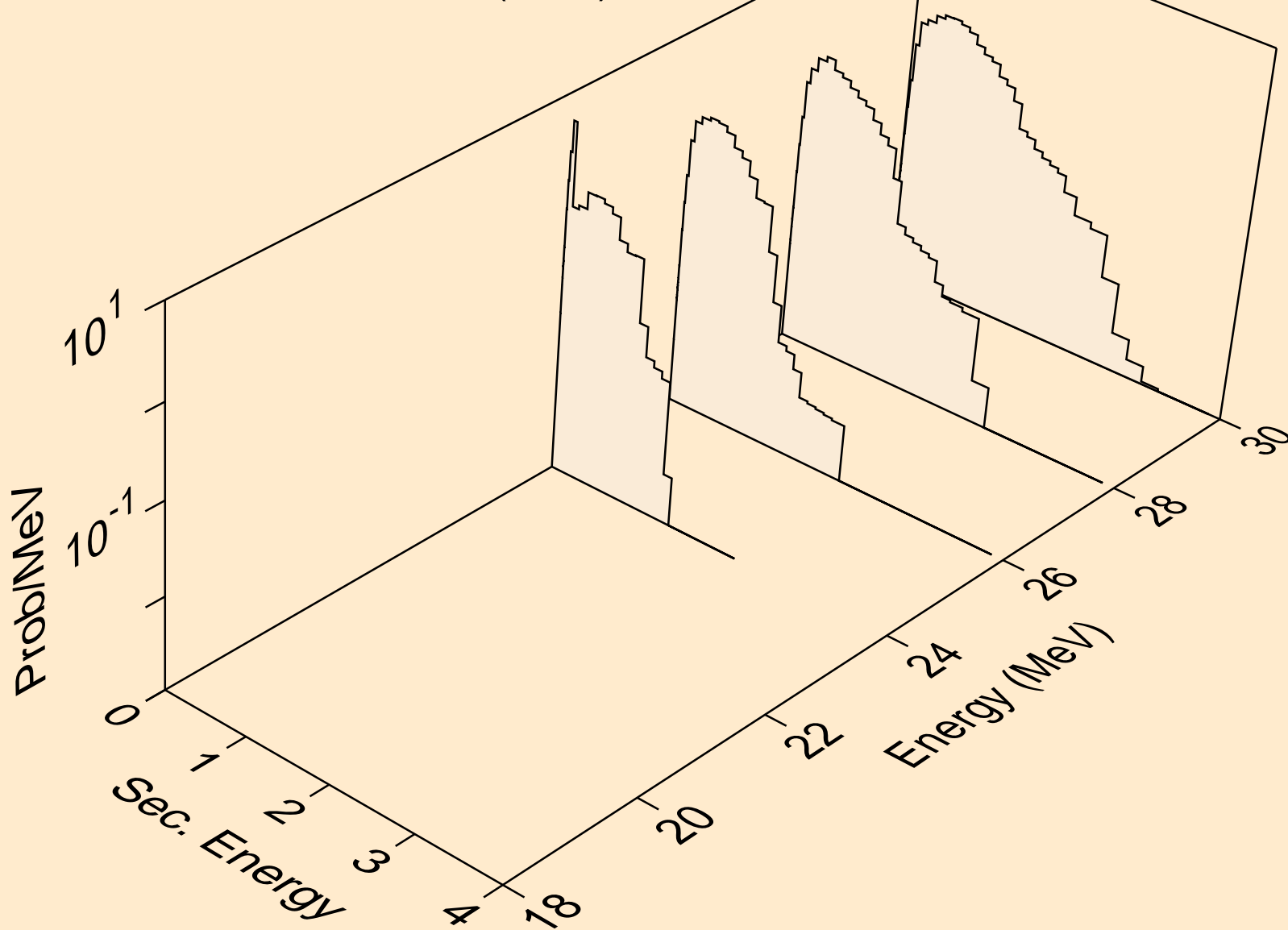
EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)a



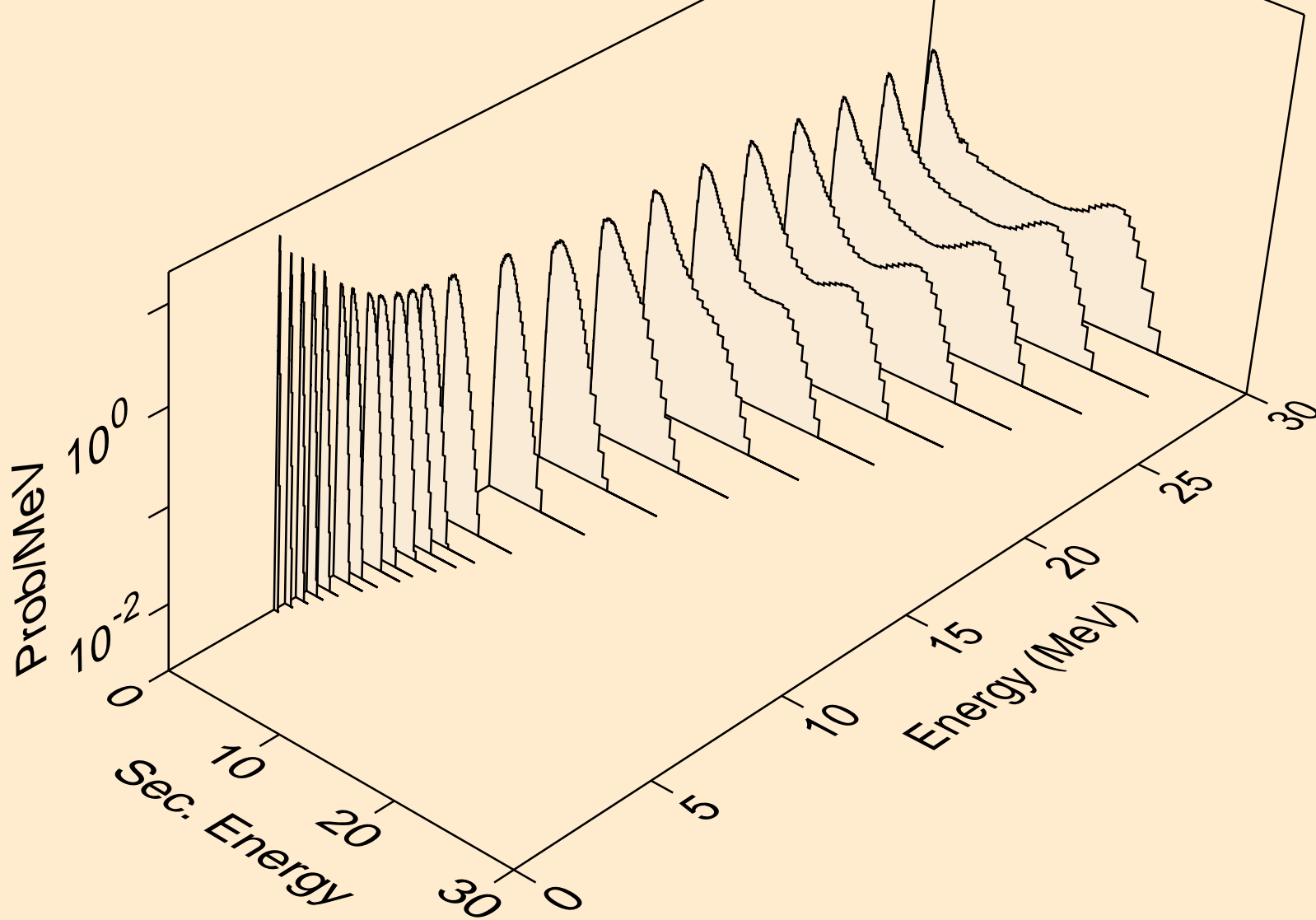
EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2n)a



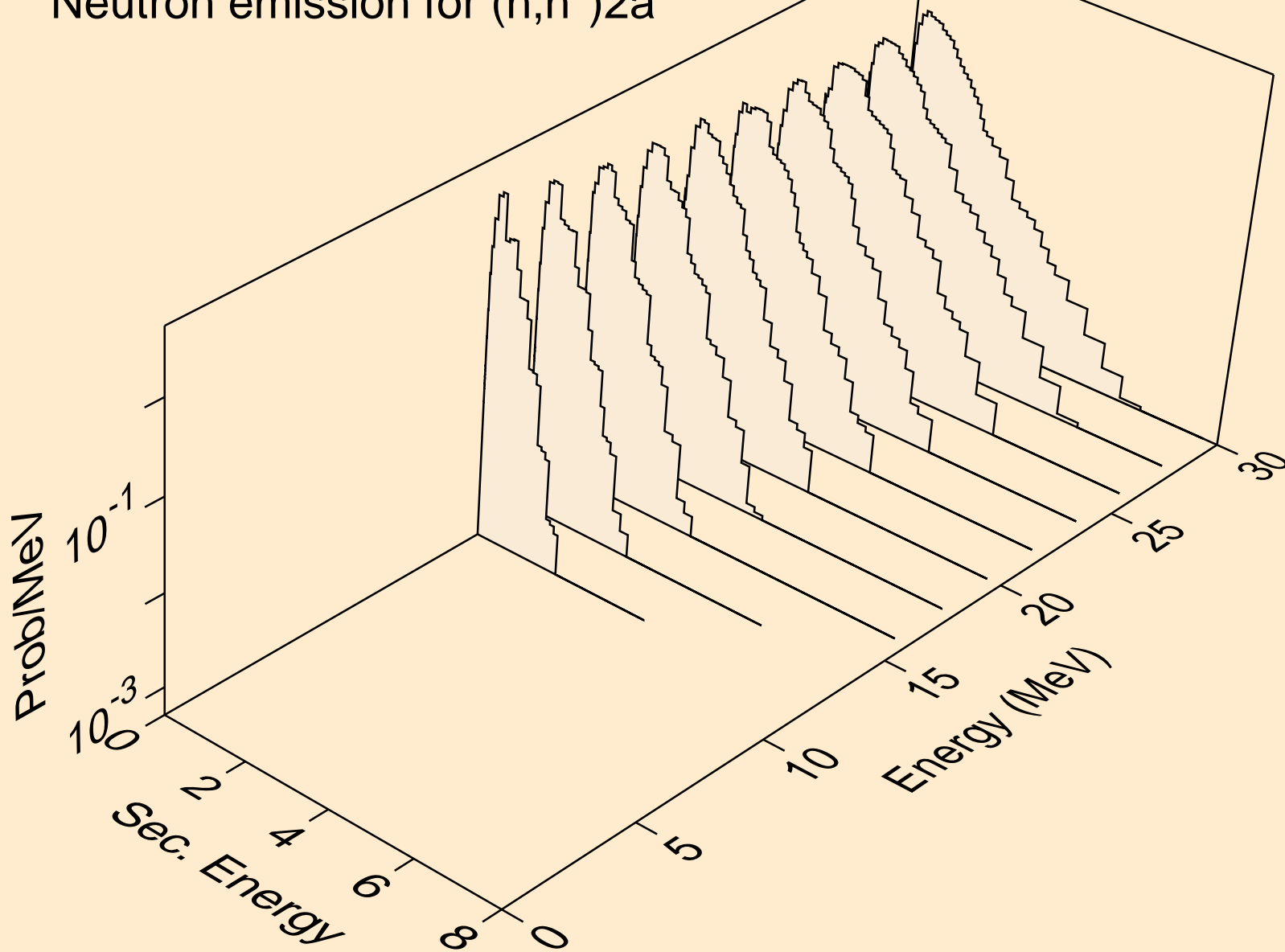
EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3n)a



EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)p

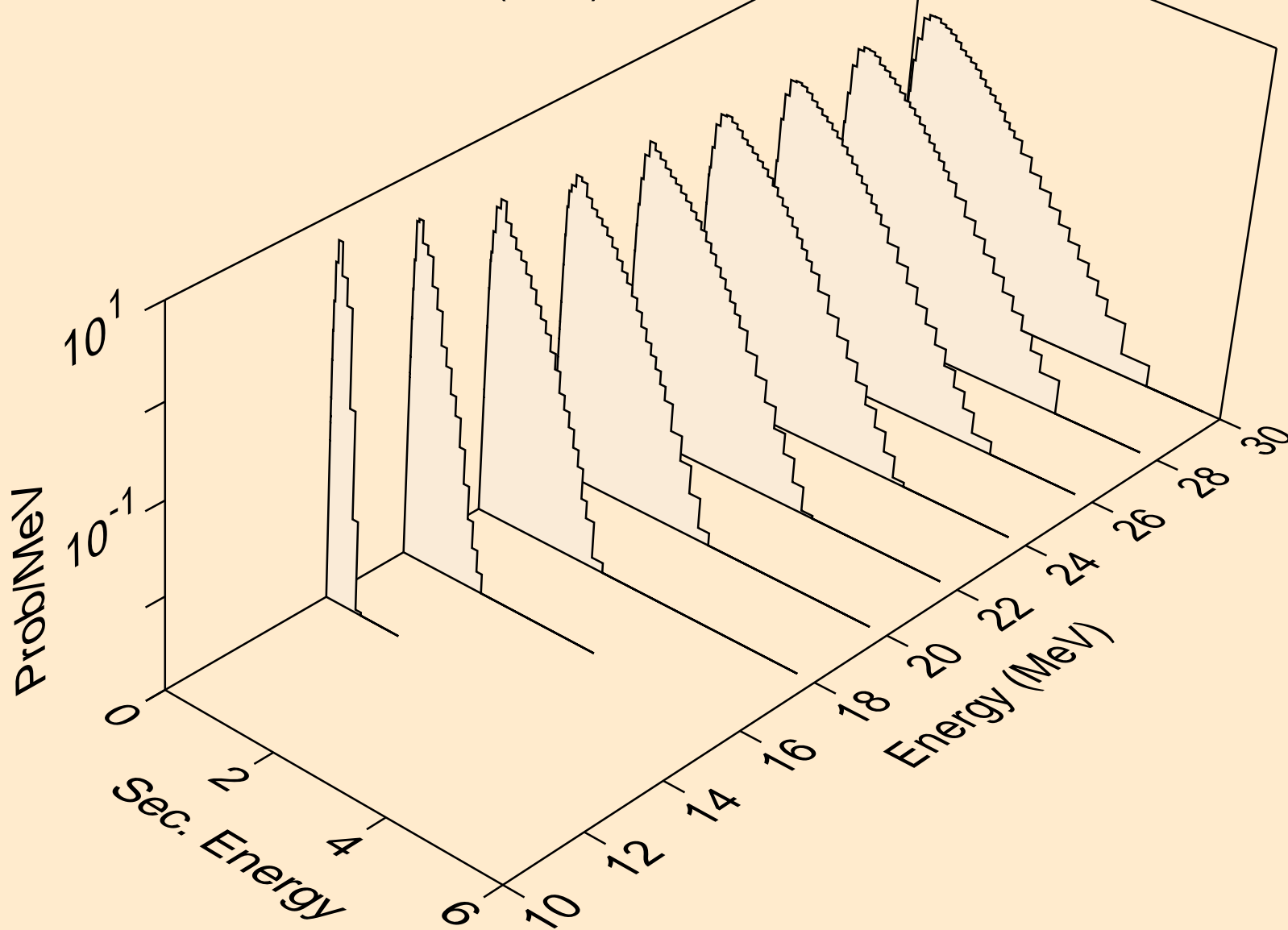


EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)2a

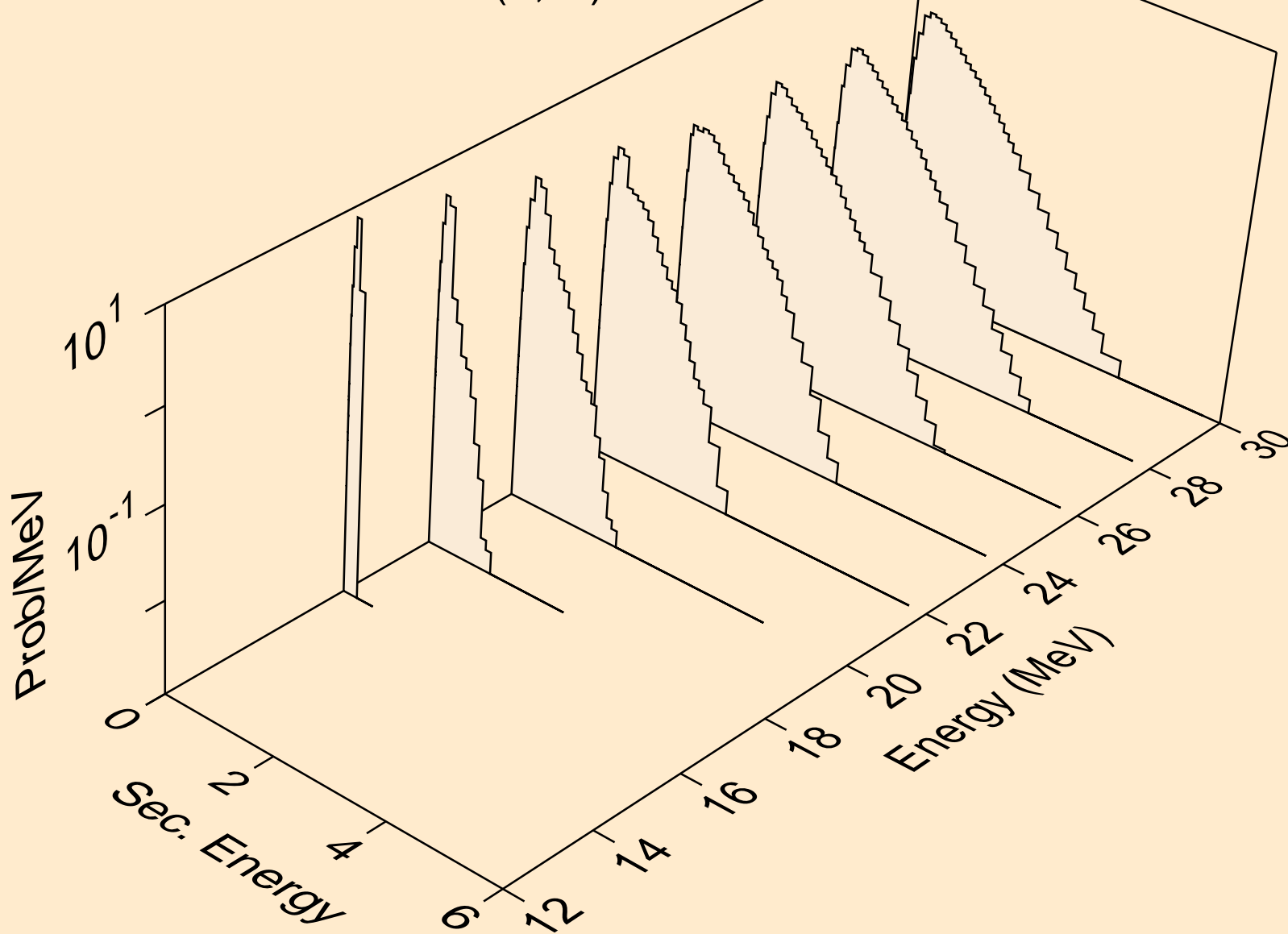




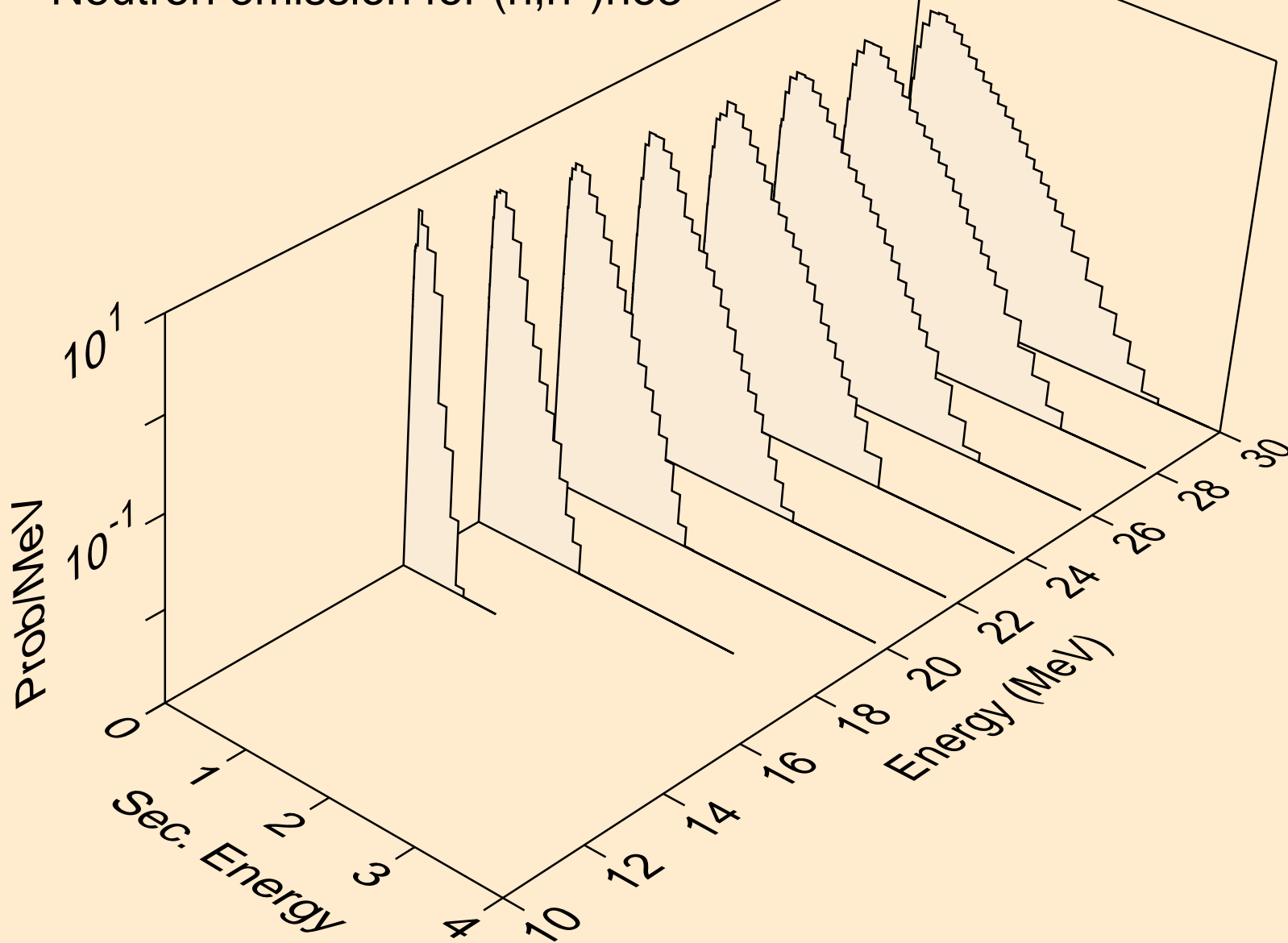
EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)d



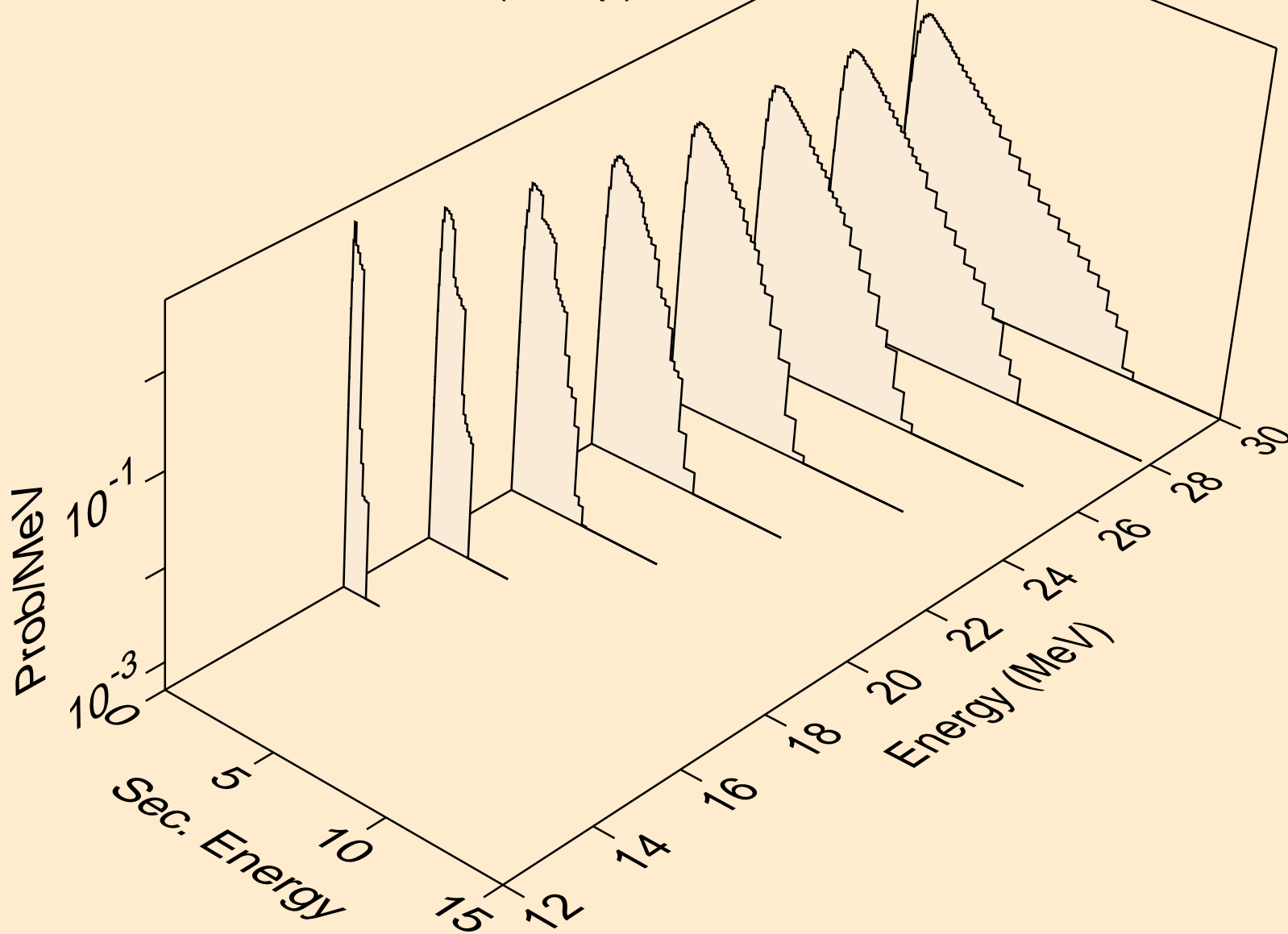
EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)t



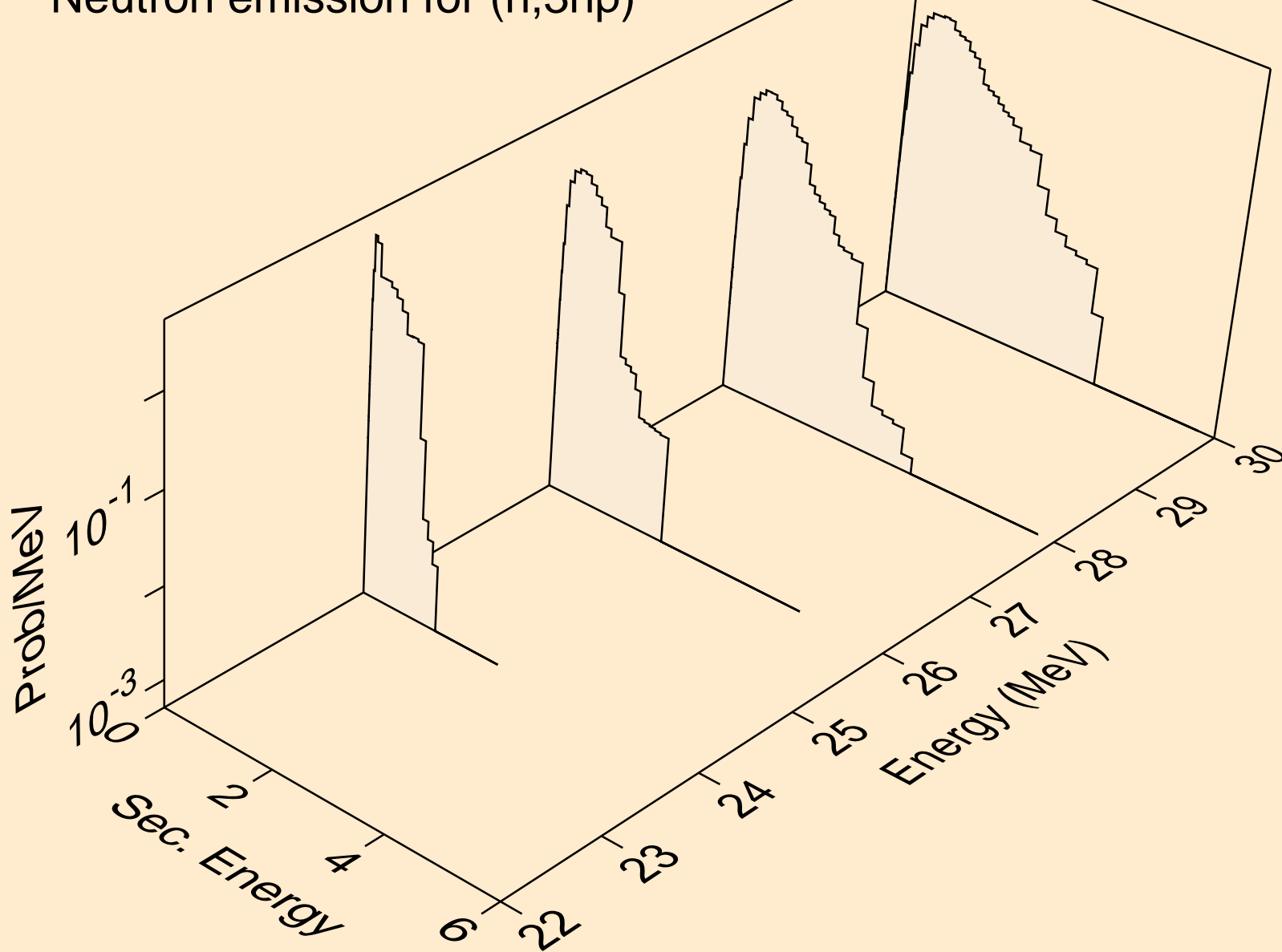
EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)he3



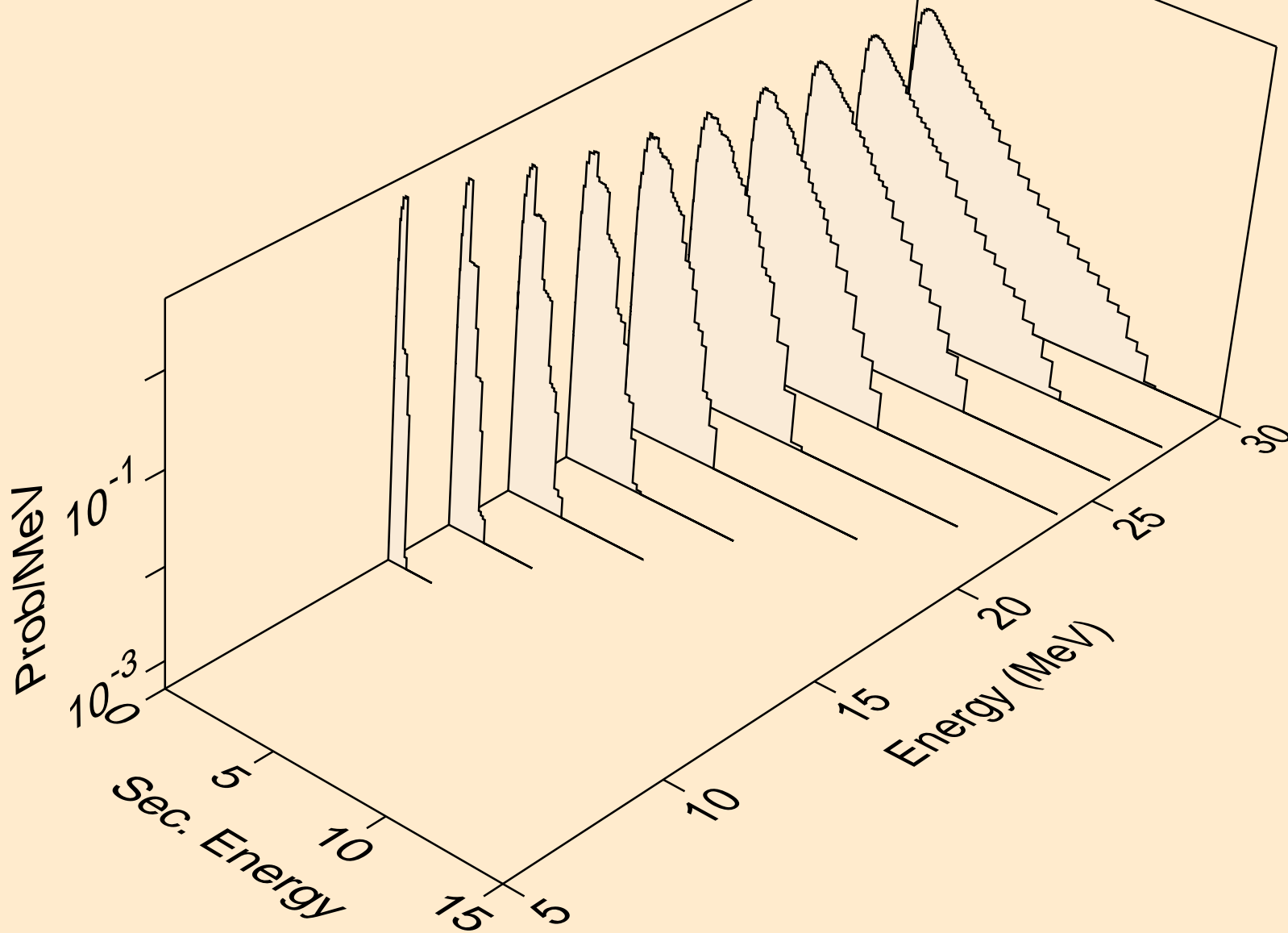
EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2np)



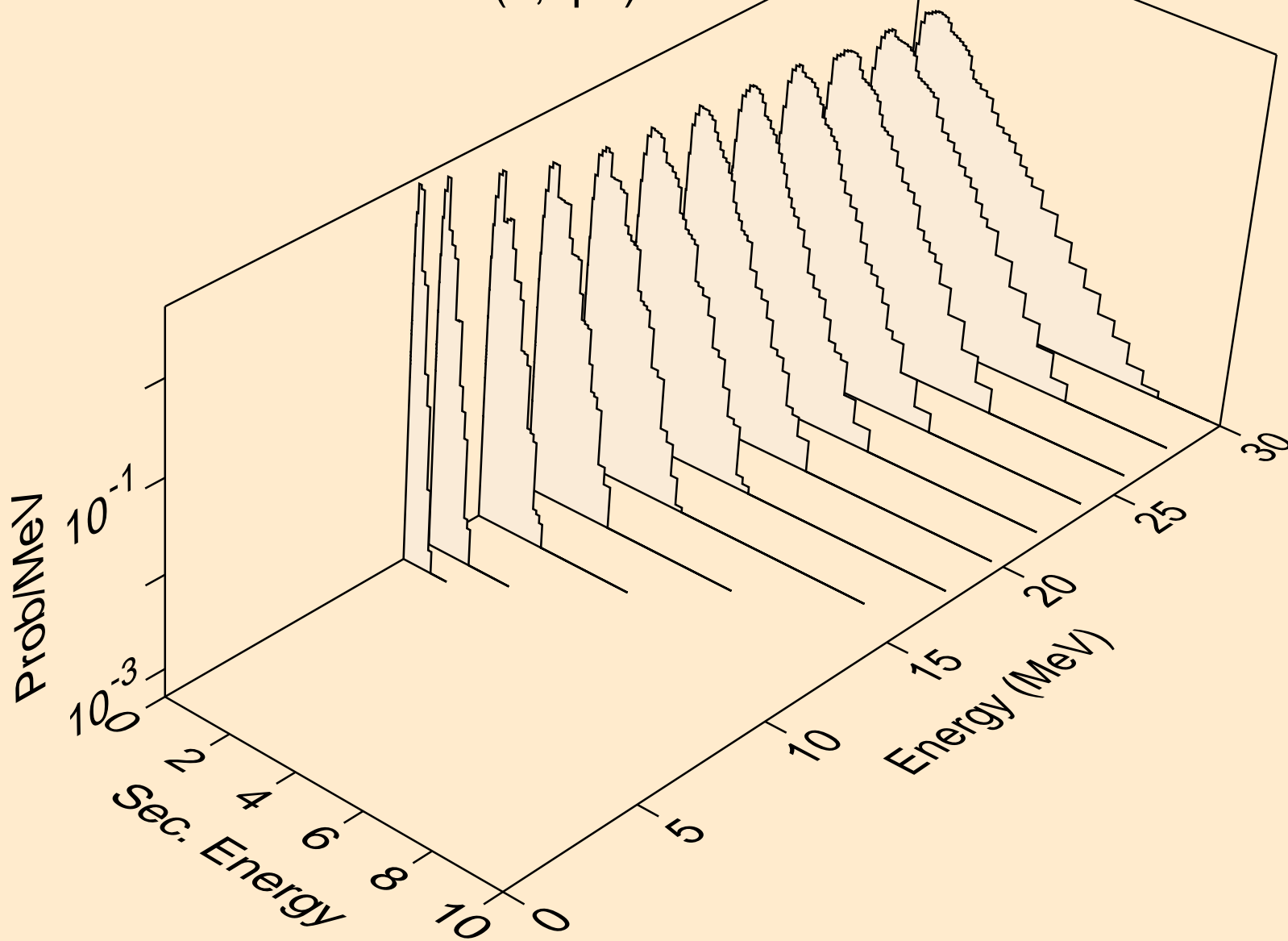
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Neutron emission for (n,3np)



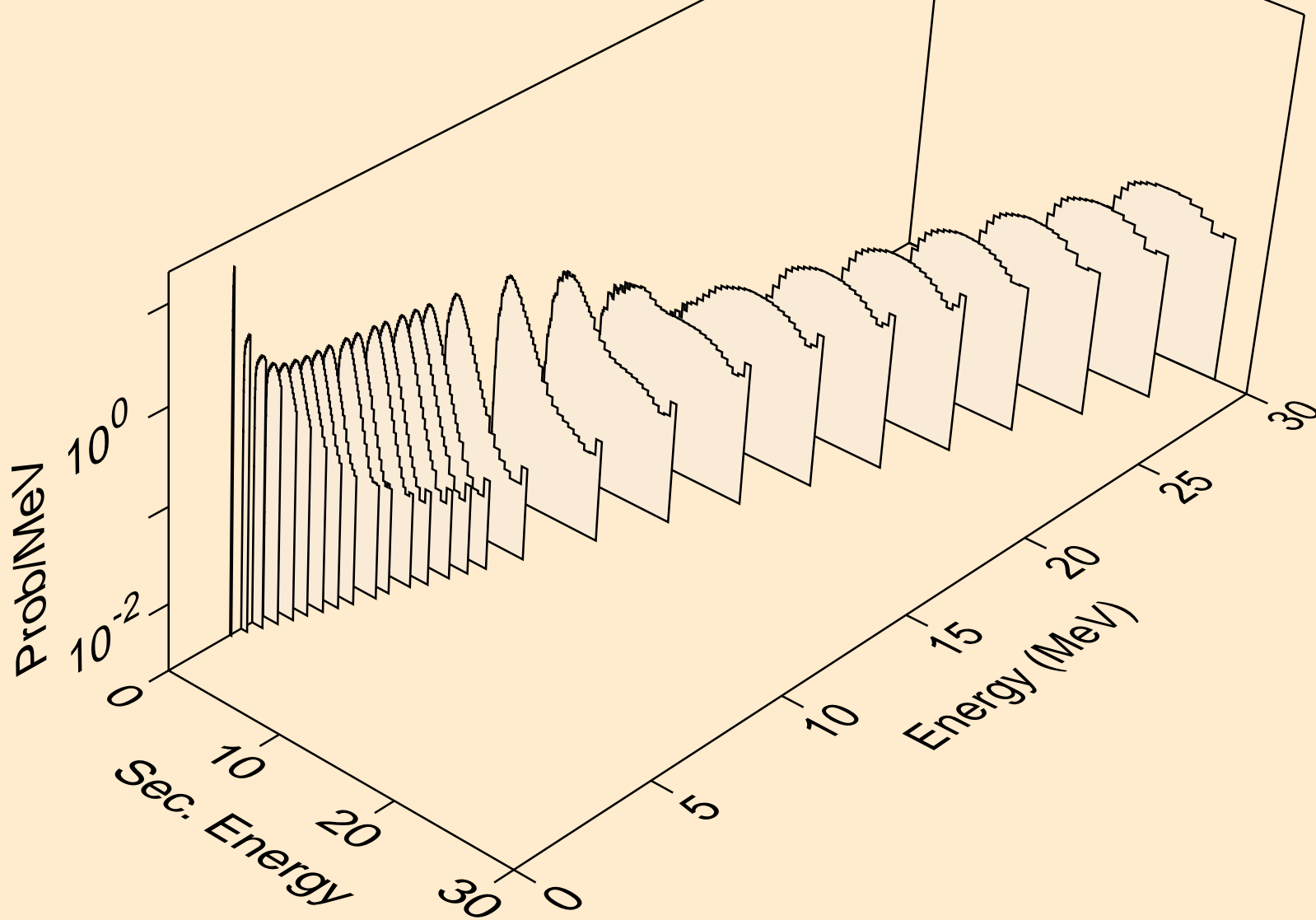
EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2np)



EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,npa)

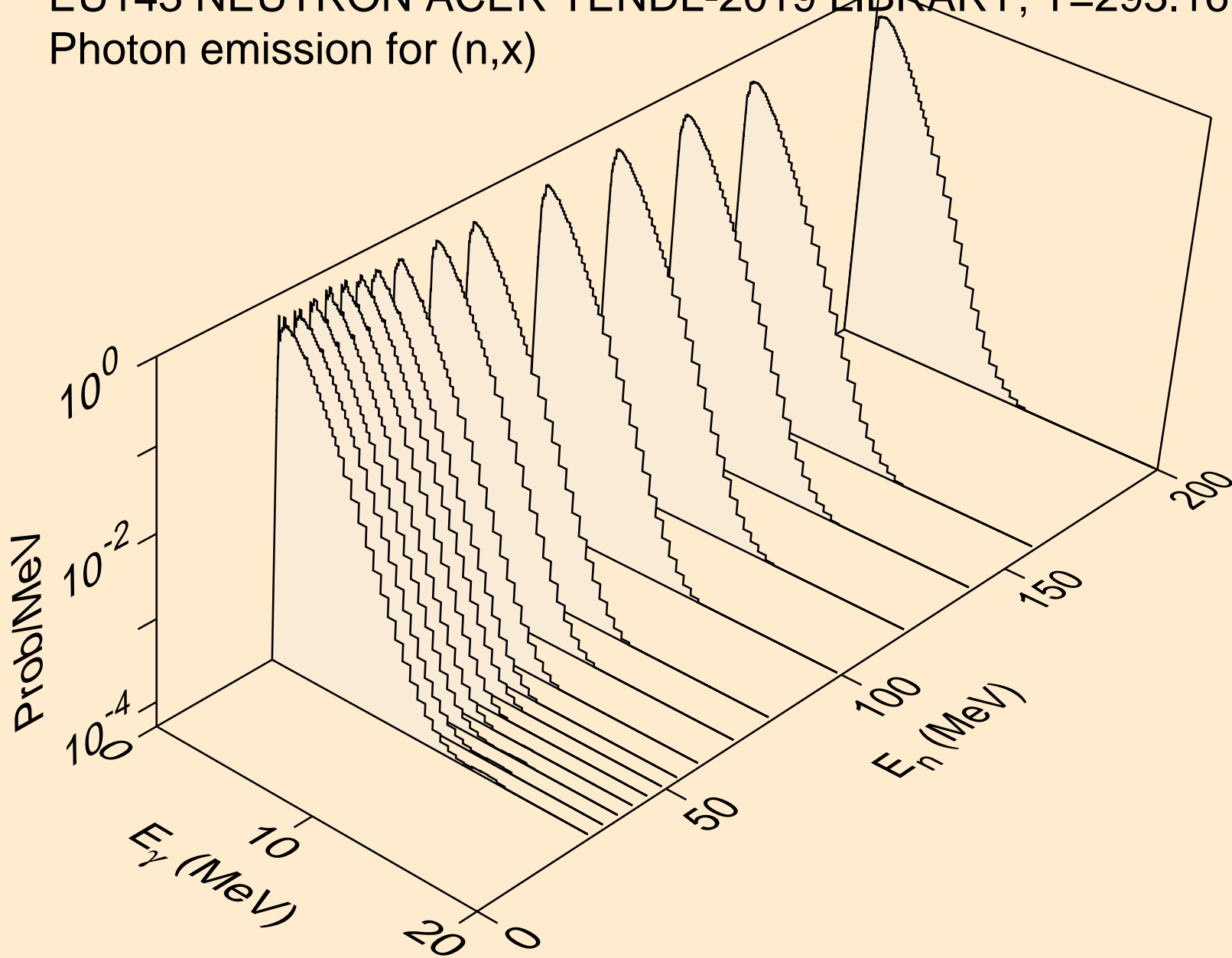


EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*c)

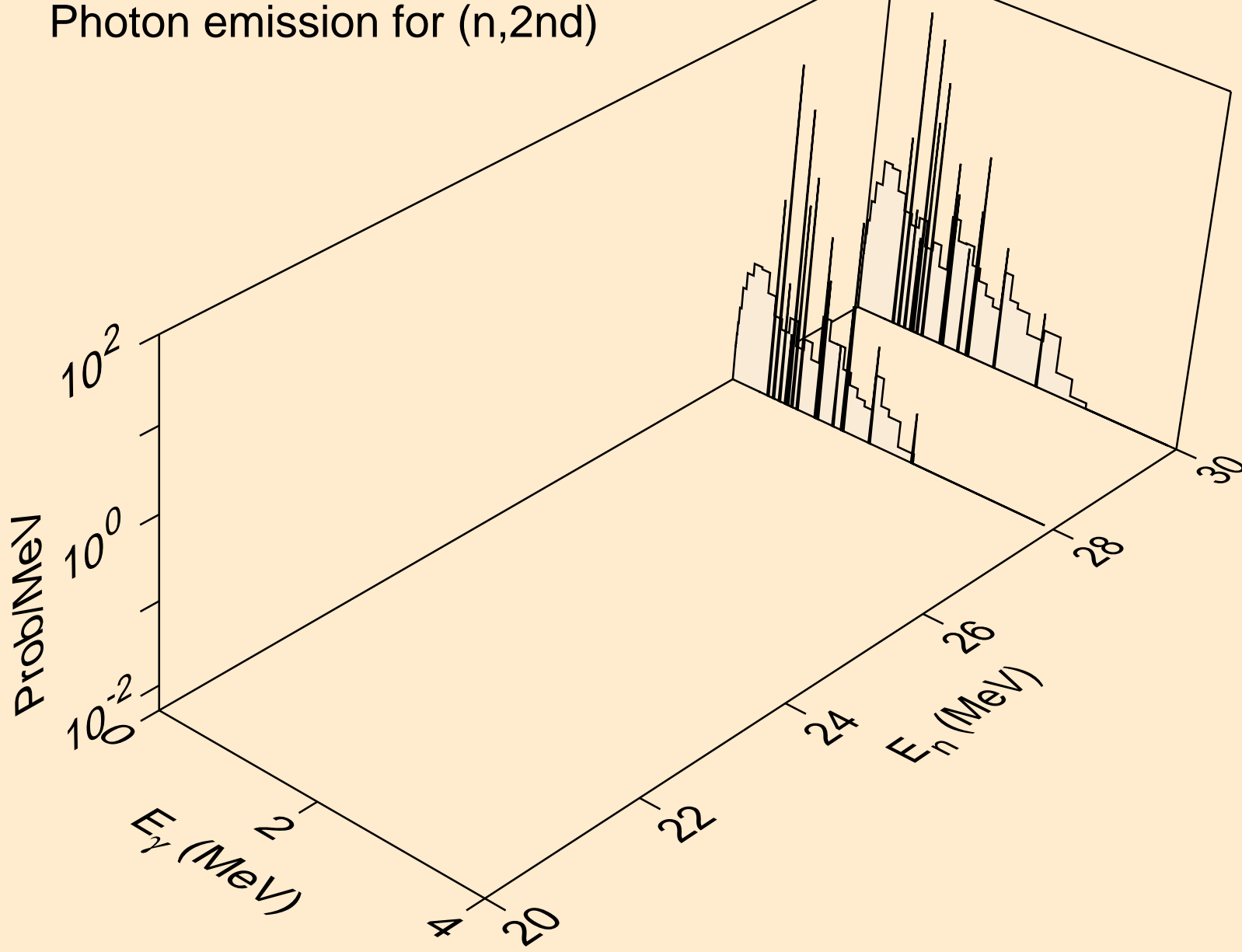




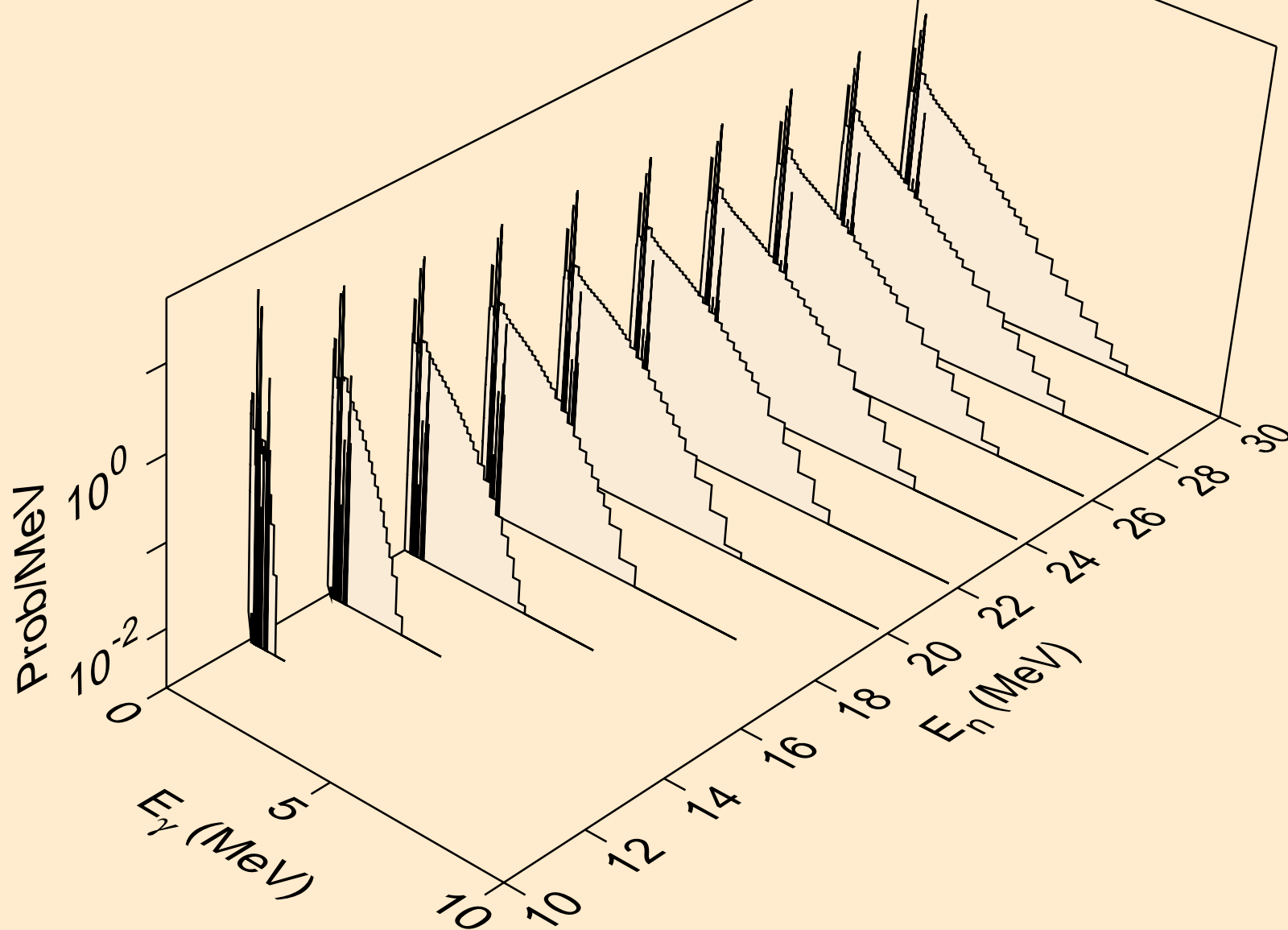
EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,x)



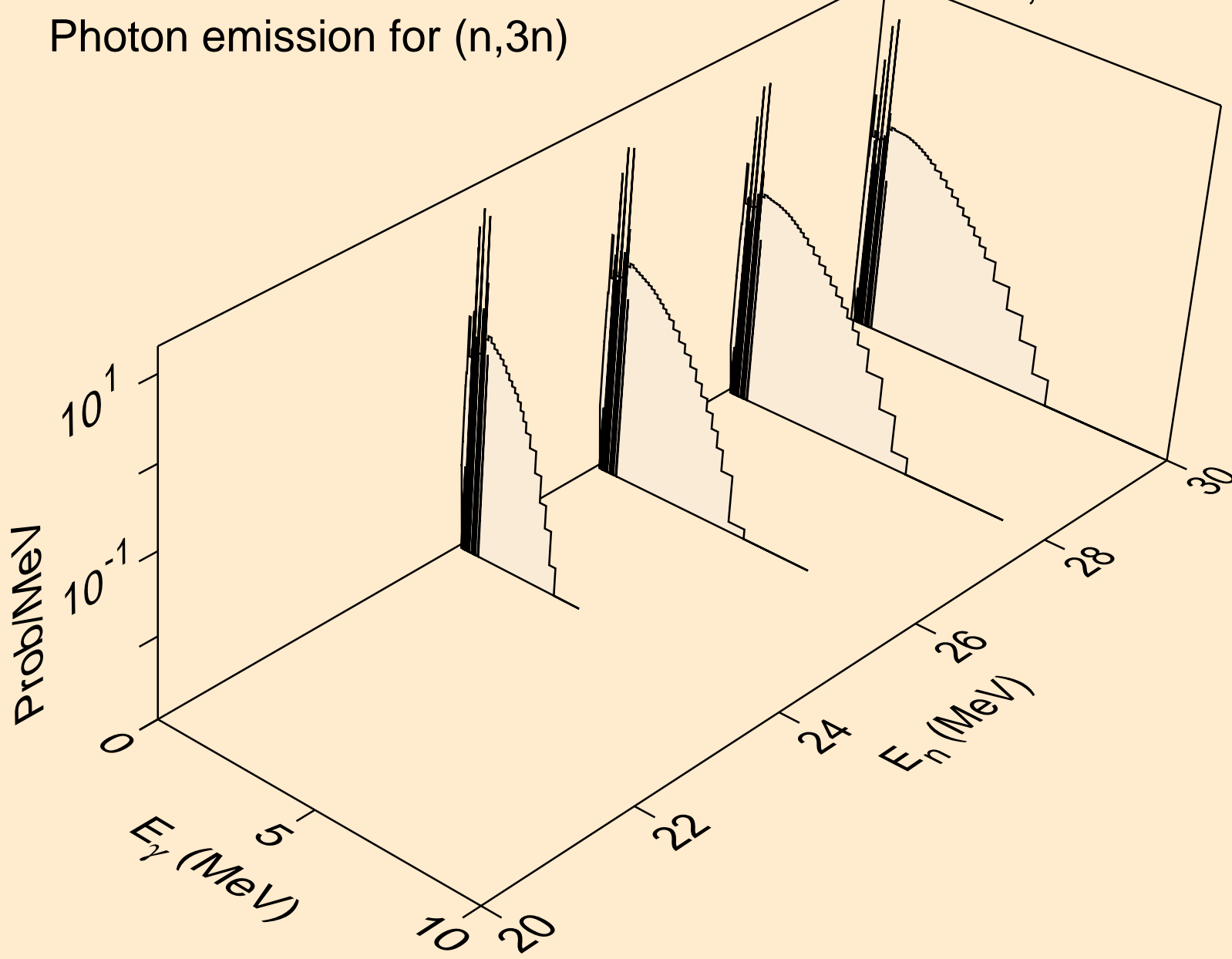
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Photon emission for (n,2nd)



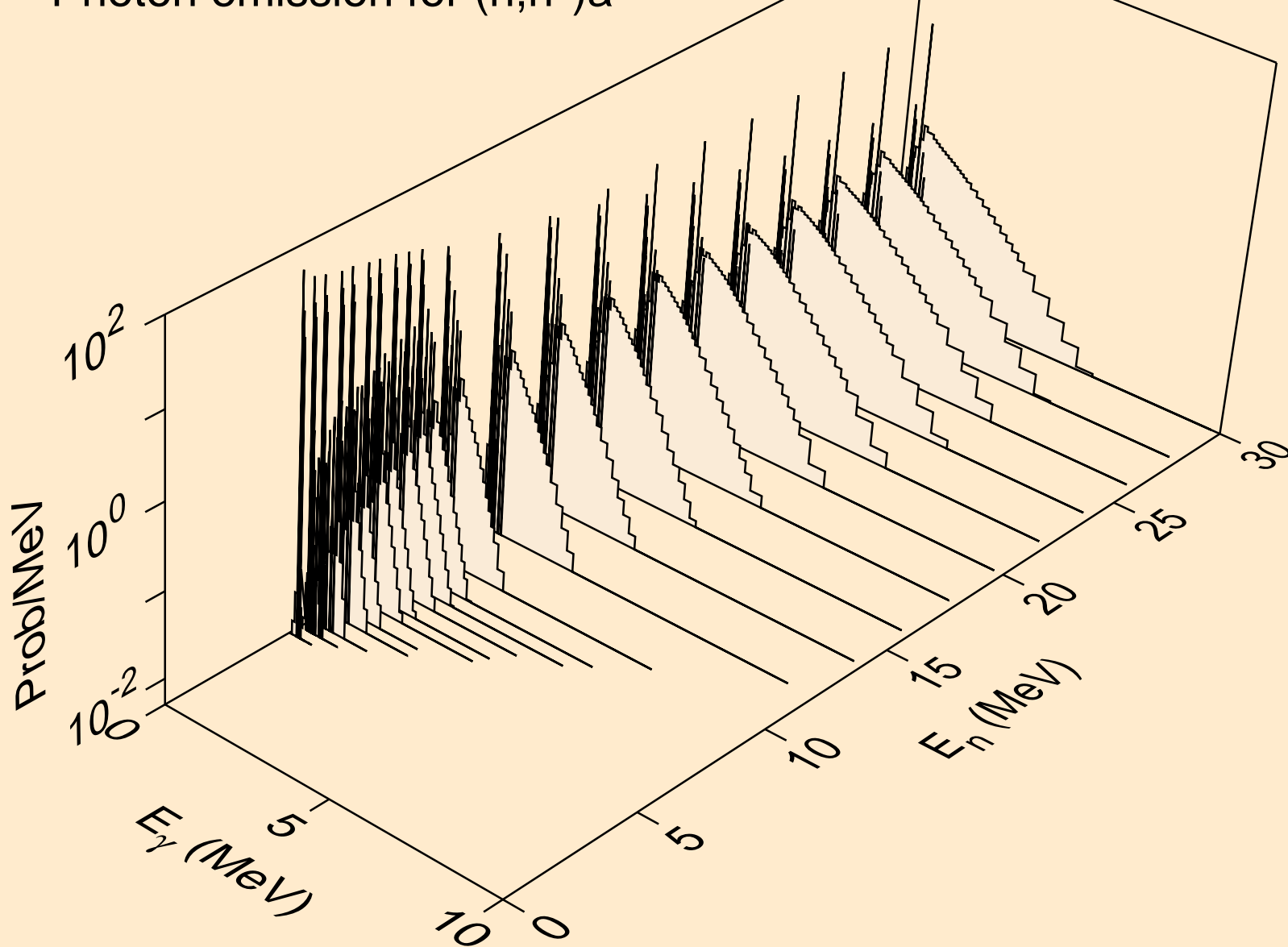
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Photon emission for (n,2n)



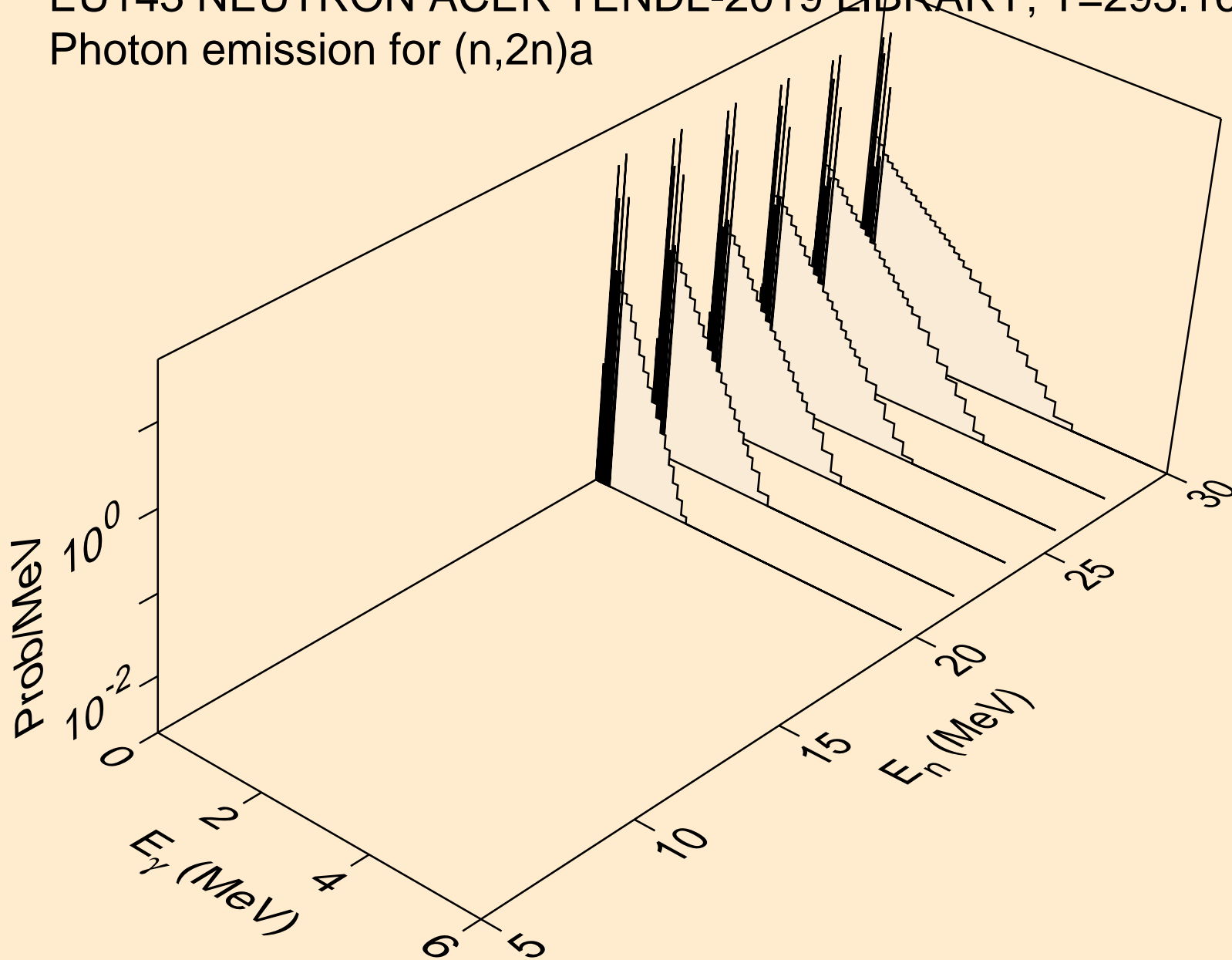
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Photon emission for (n,3n)



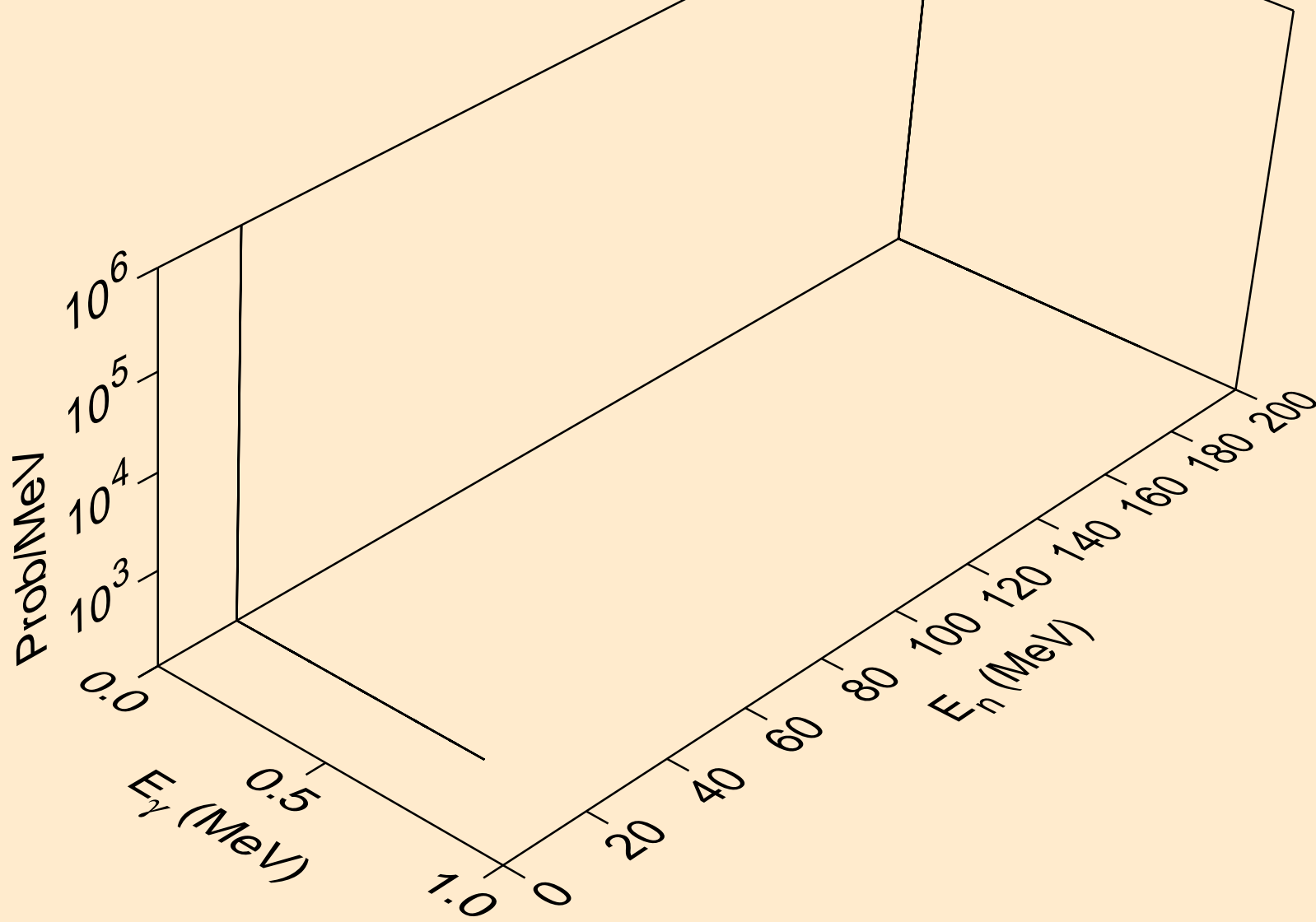
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Photon emission for (n,n\*)a



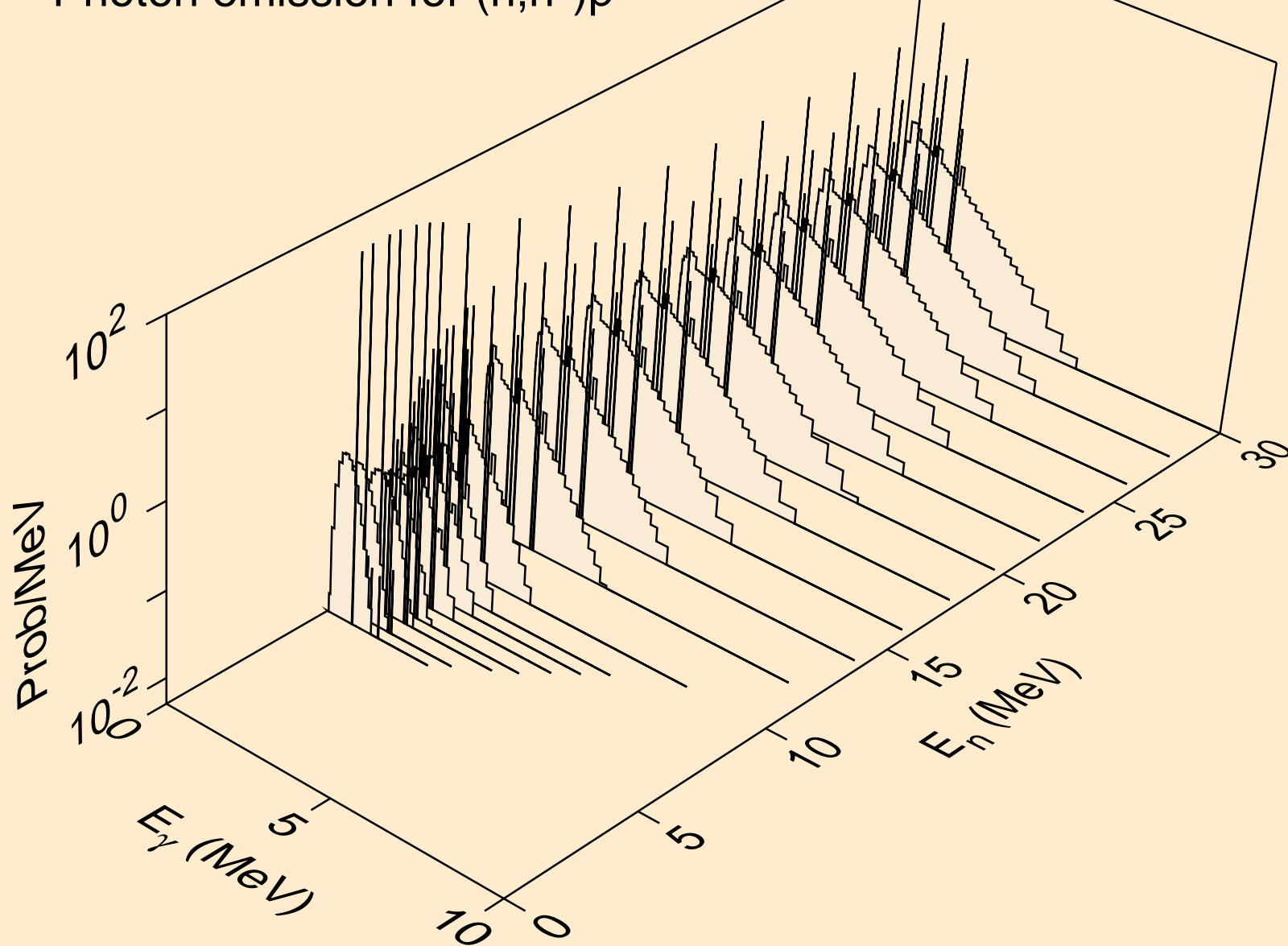
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Photon emission for (n,2n)a



EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,3n)a

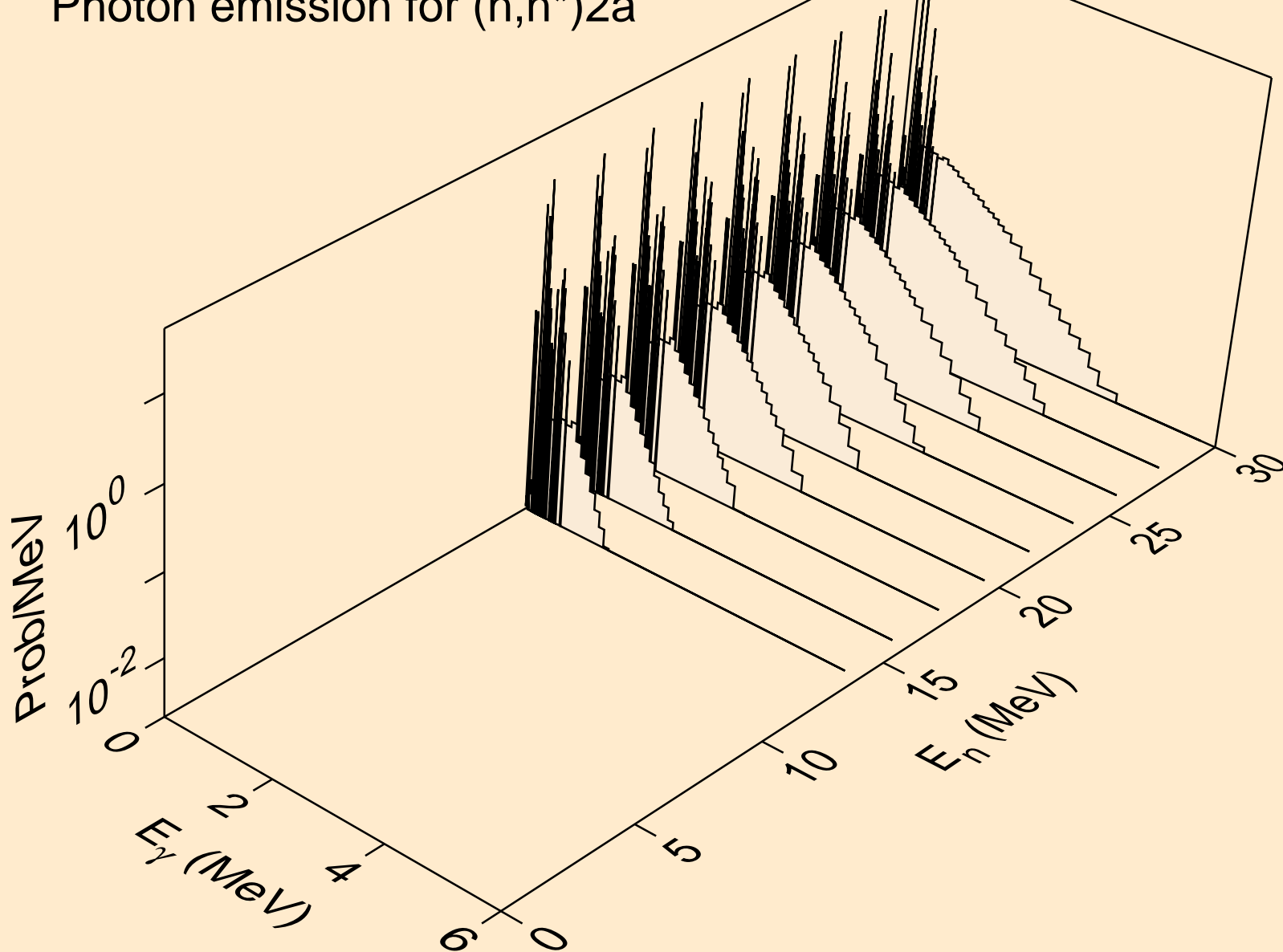


EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)p

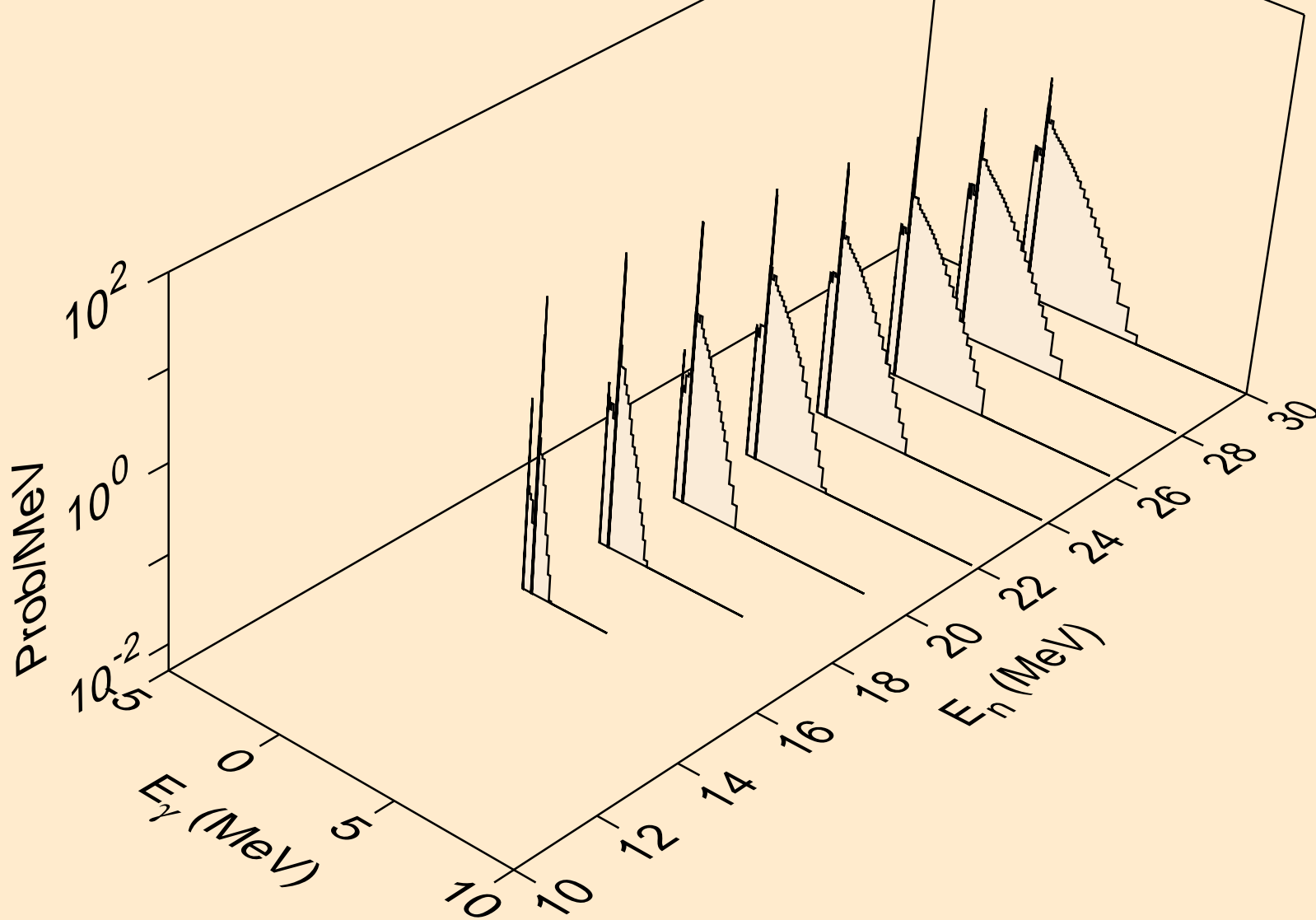




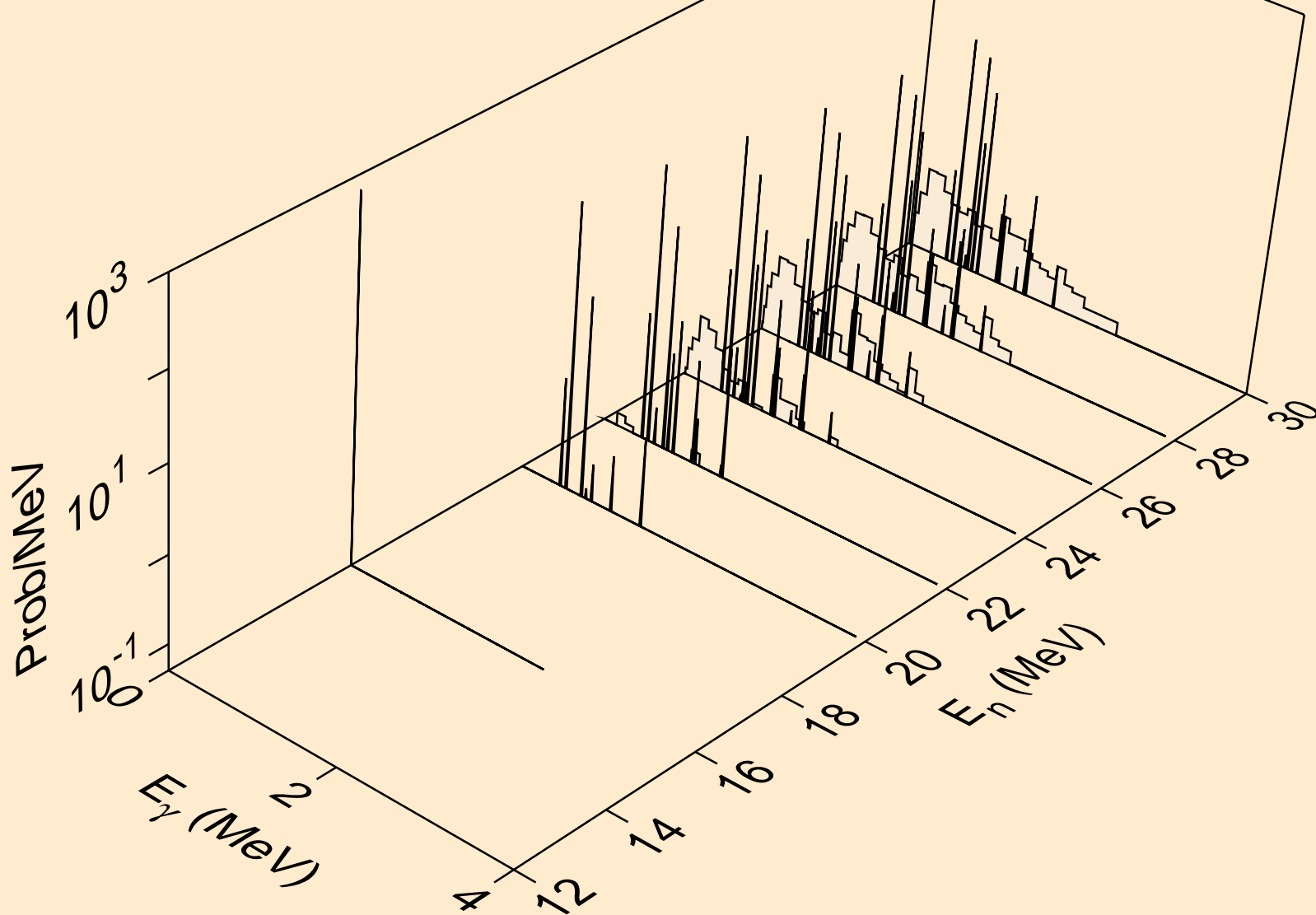
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Photon emission for (n,n\*)2a



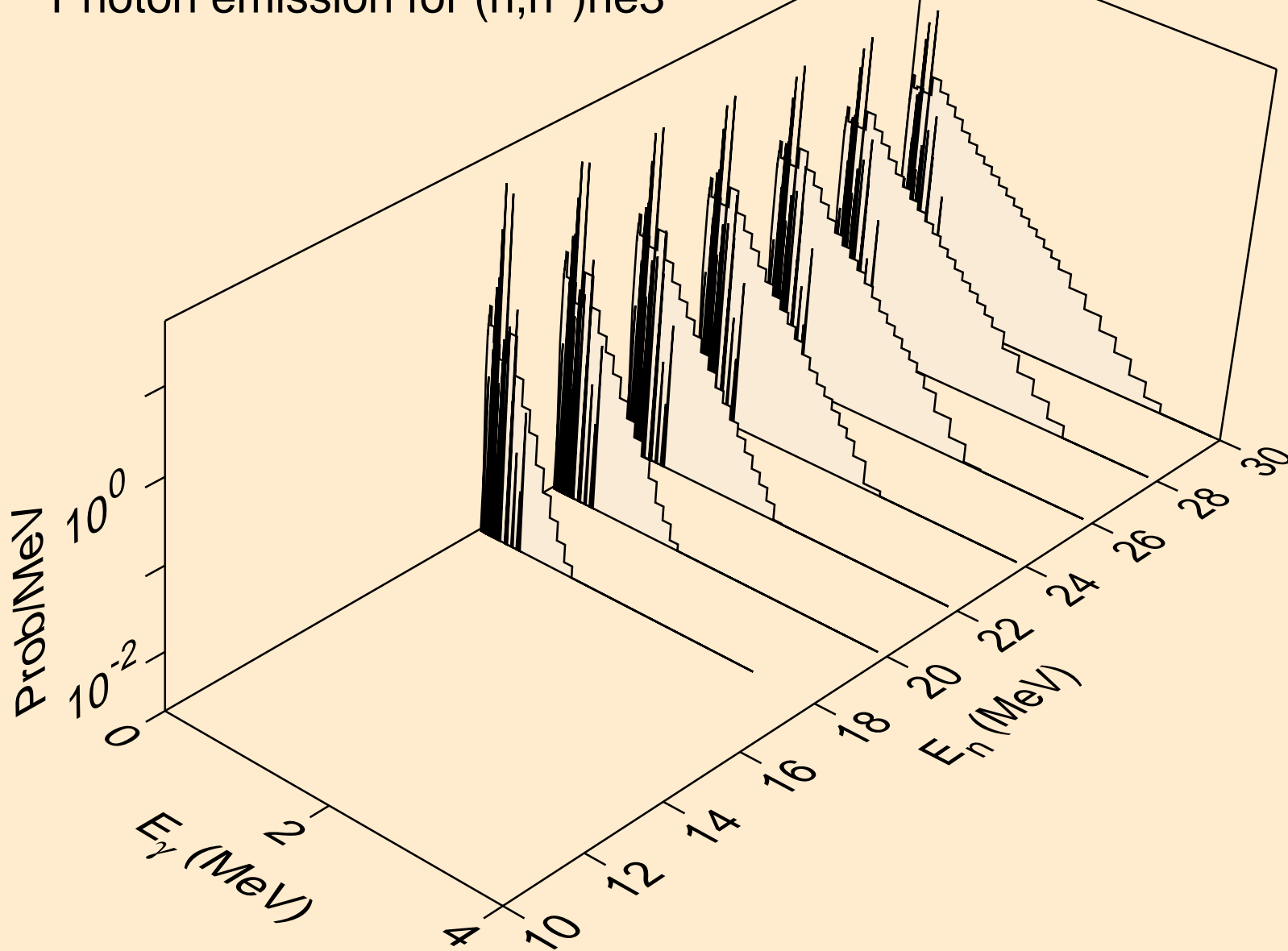
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Photon emission for (n,n\*)d



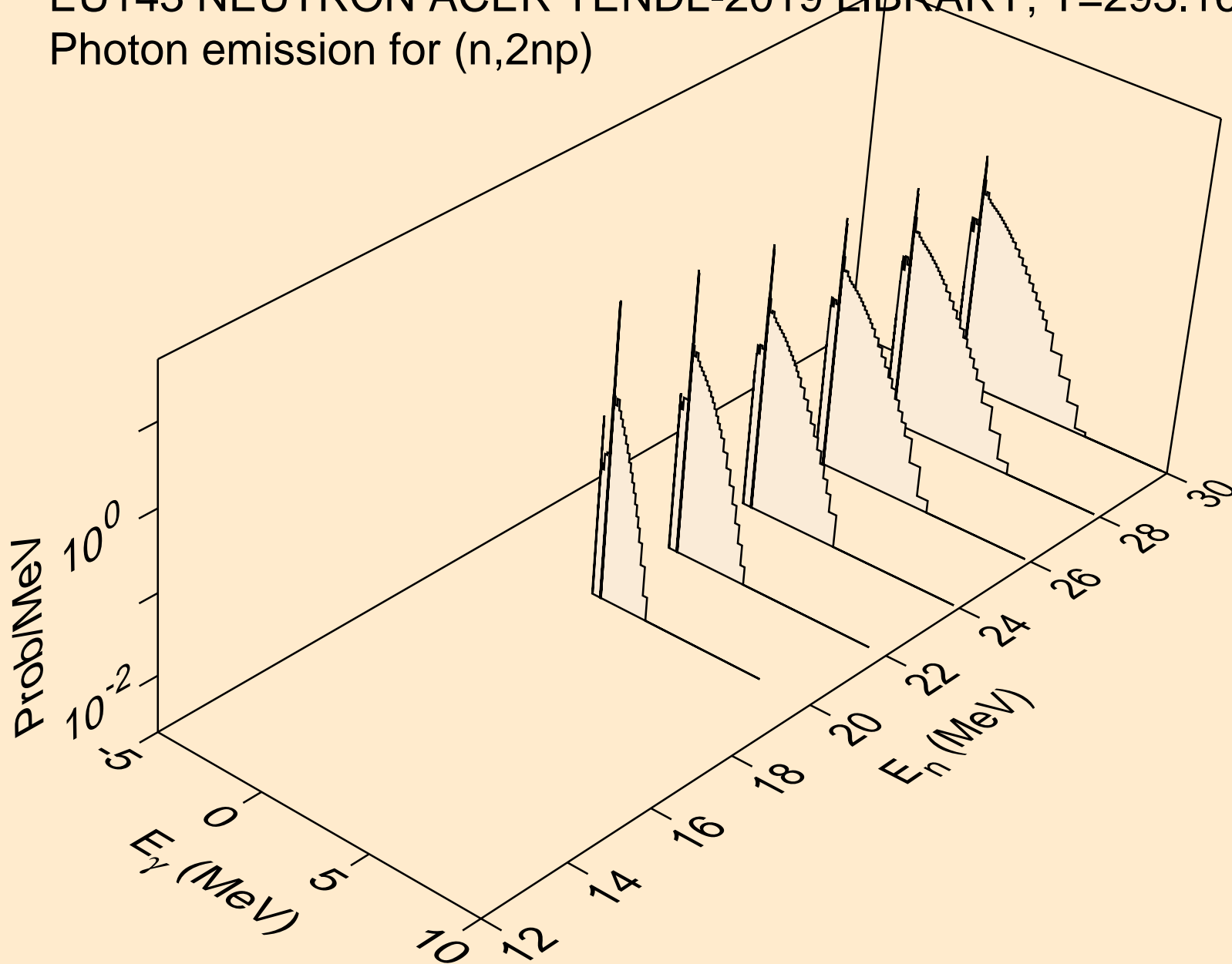
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Photon emission for (n,n\*)t



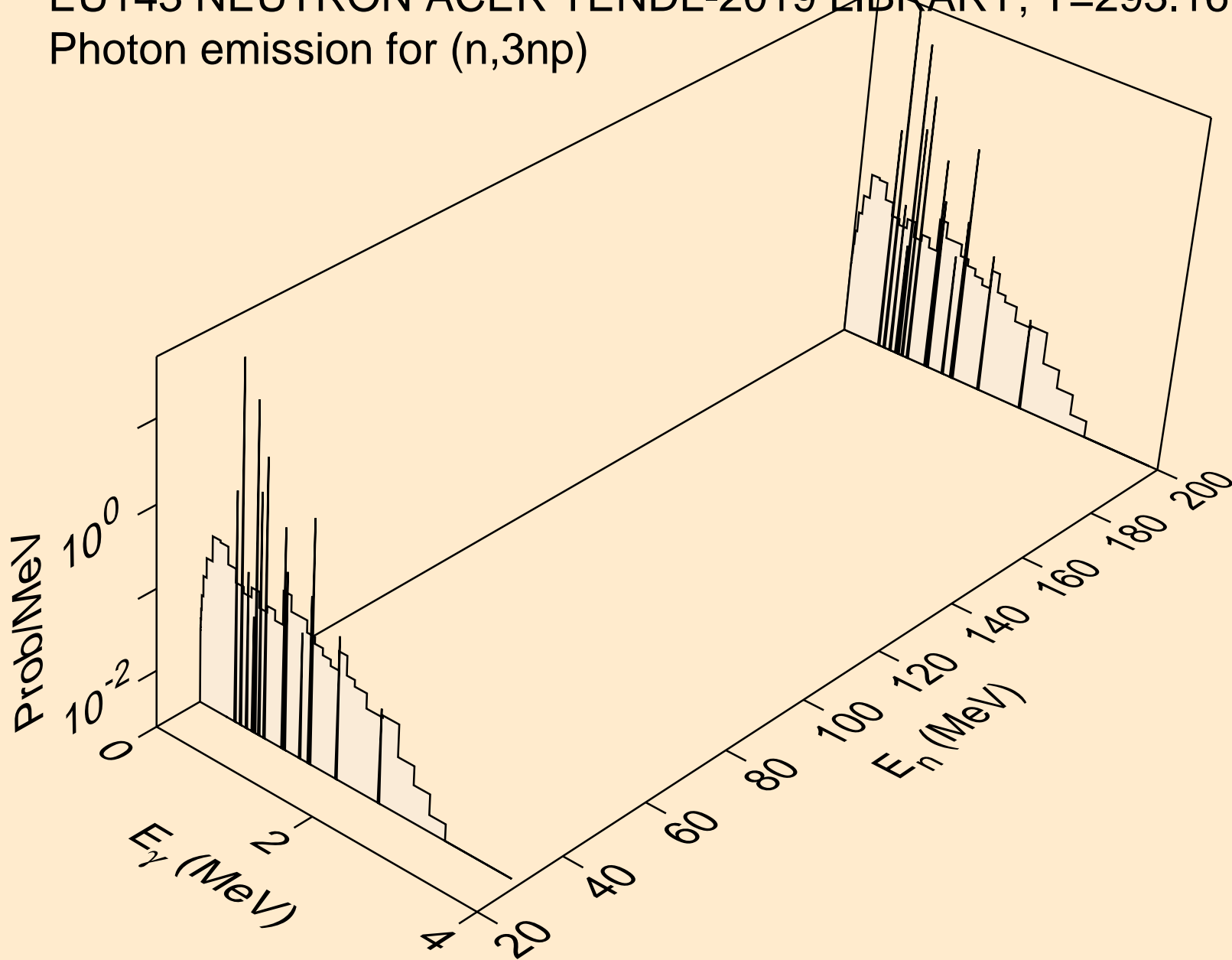
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Photon emission for (n,n\*)he3



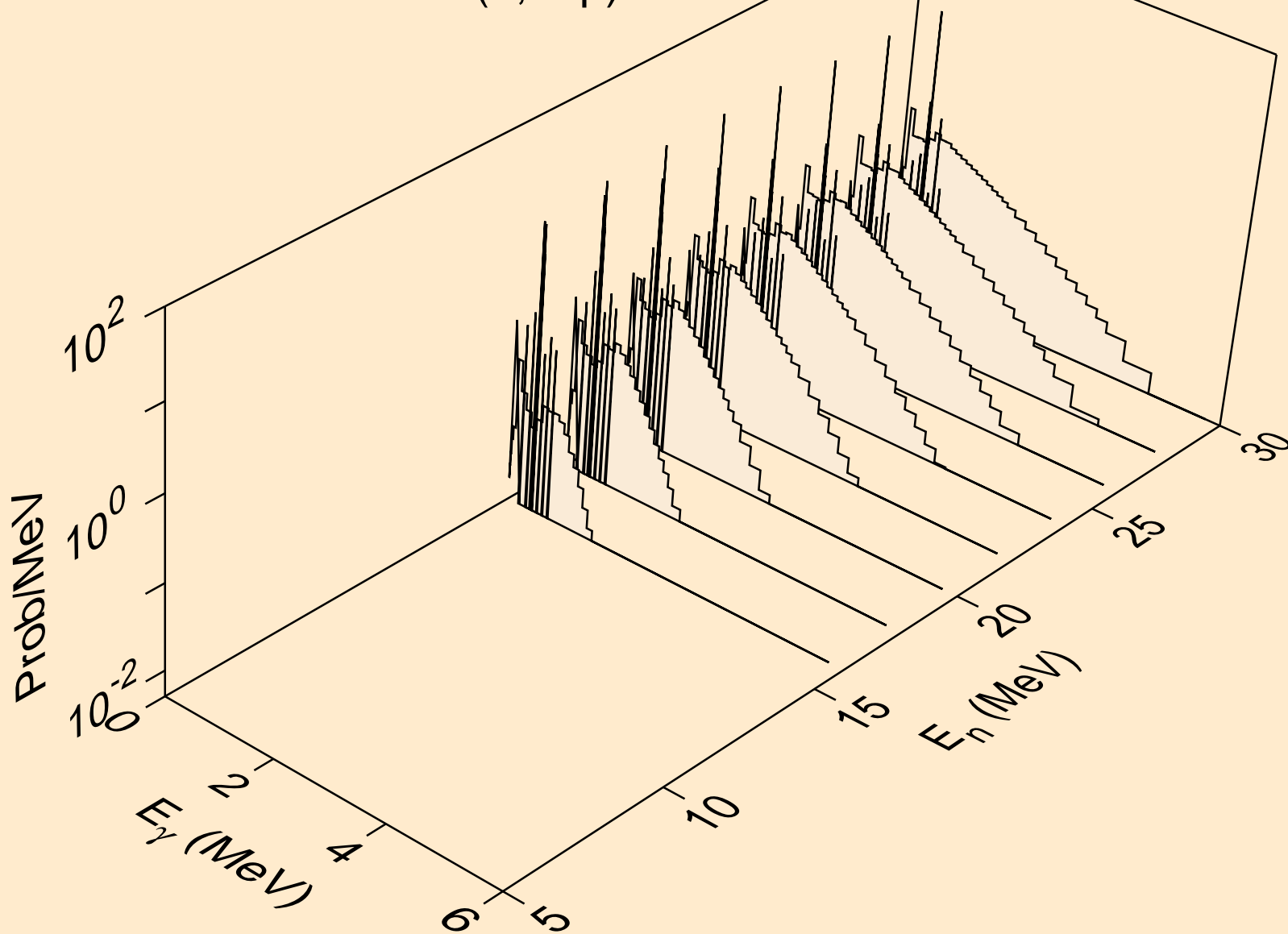
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Photon emission for (n,2np)



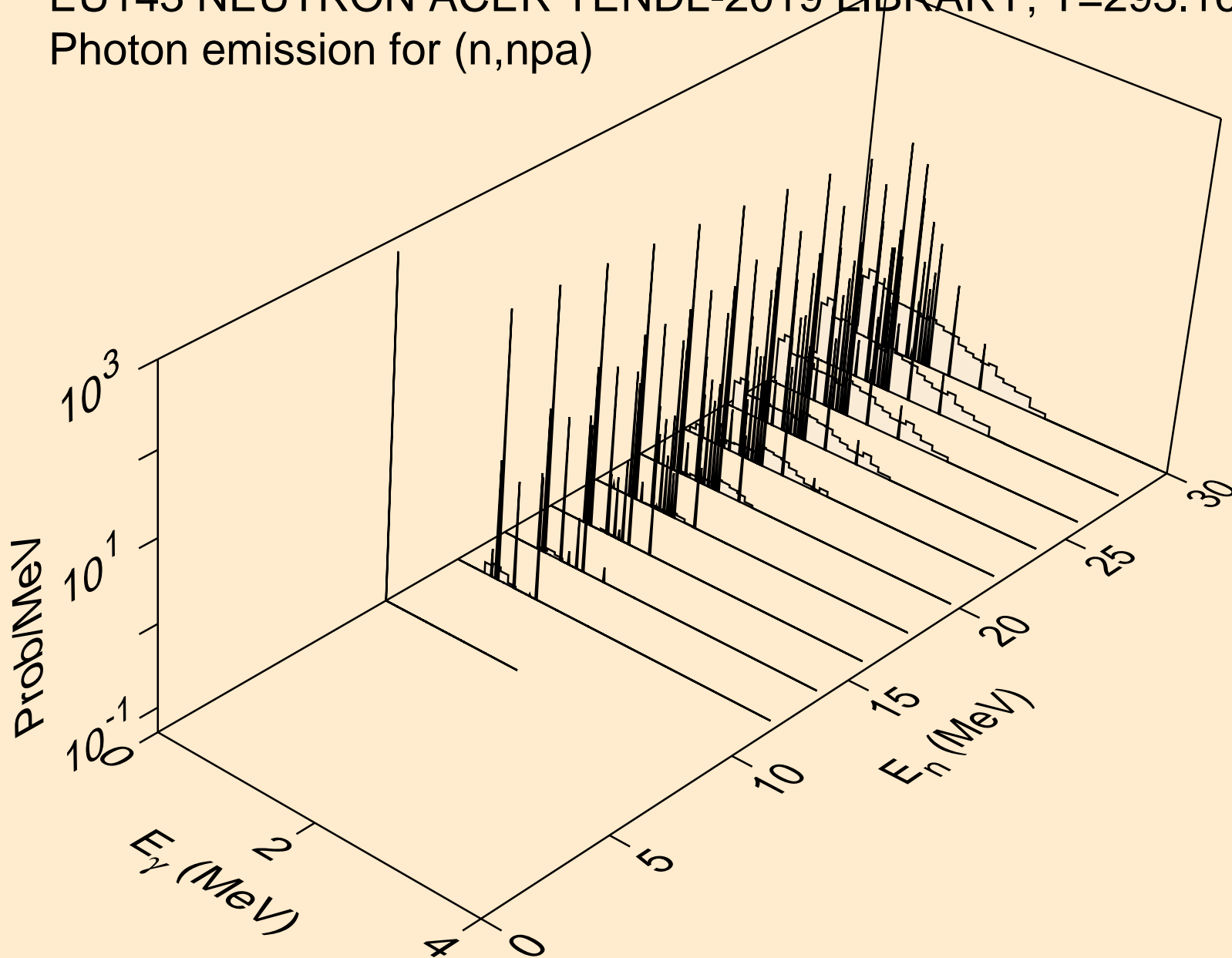
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Photon emission for (n,3np)



EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2np)

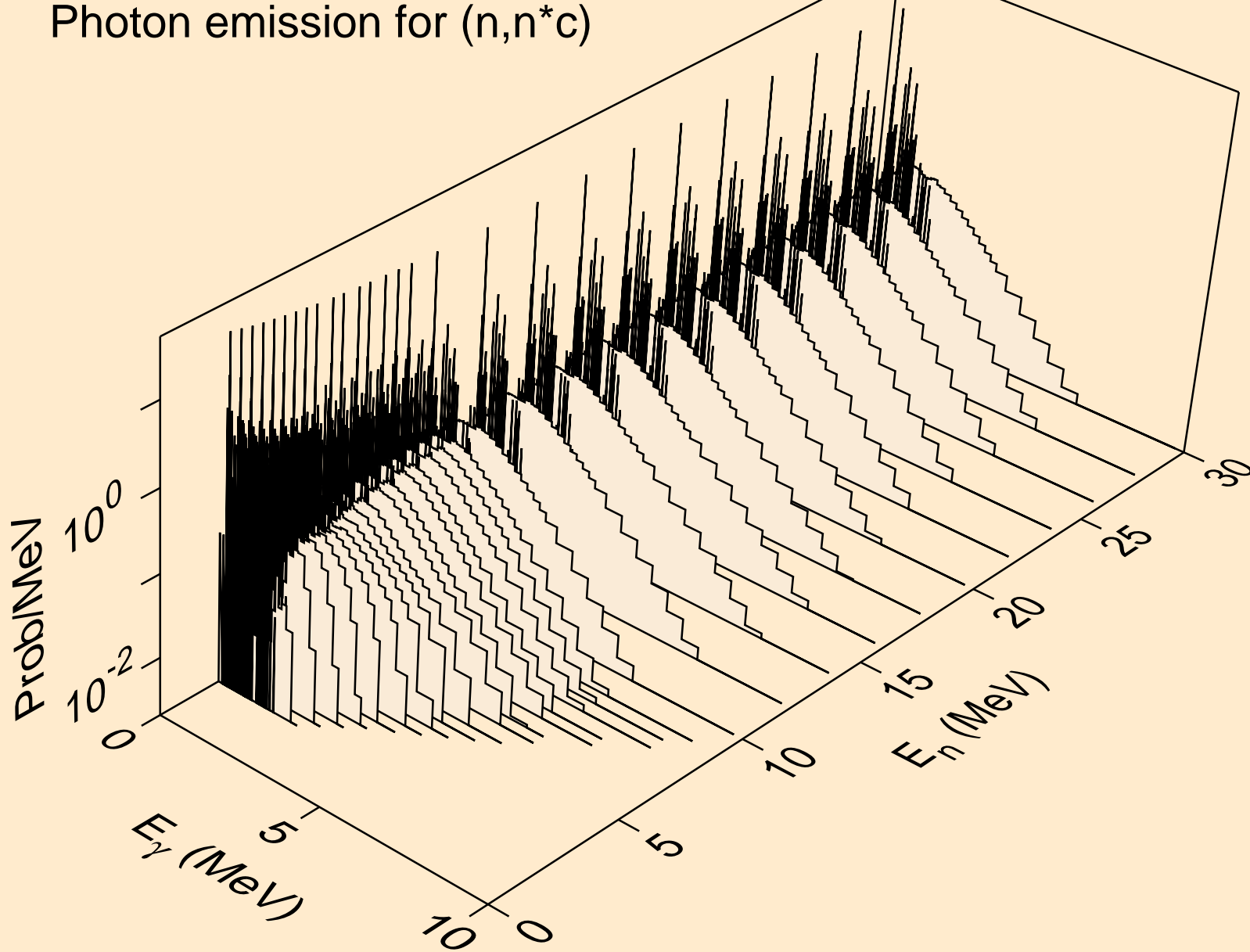


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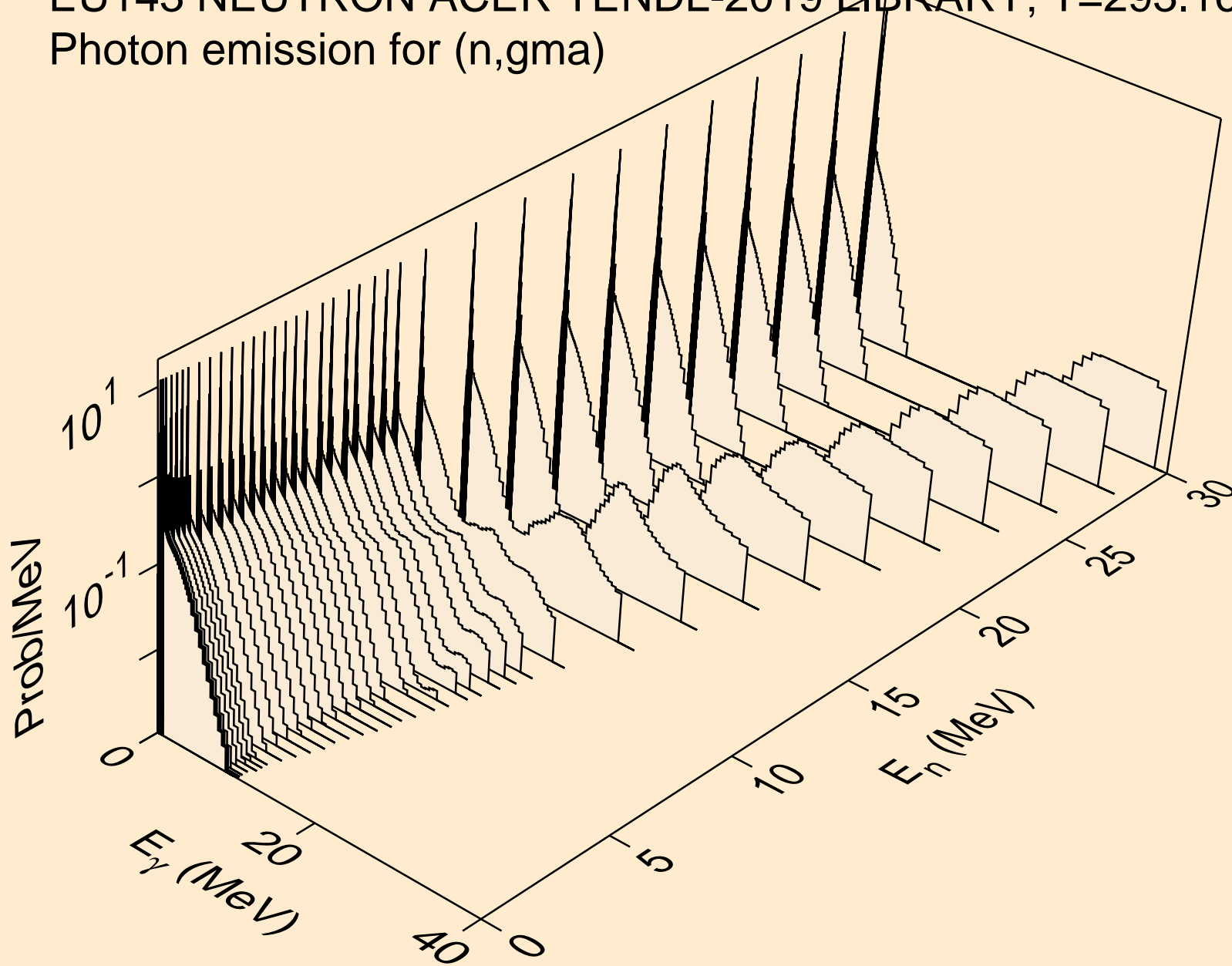




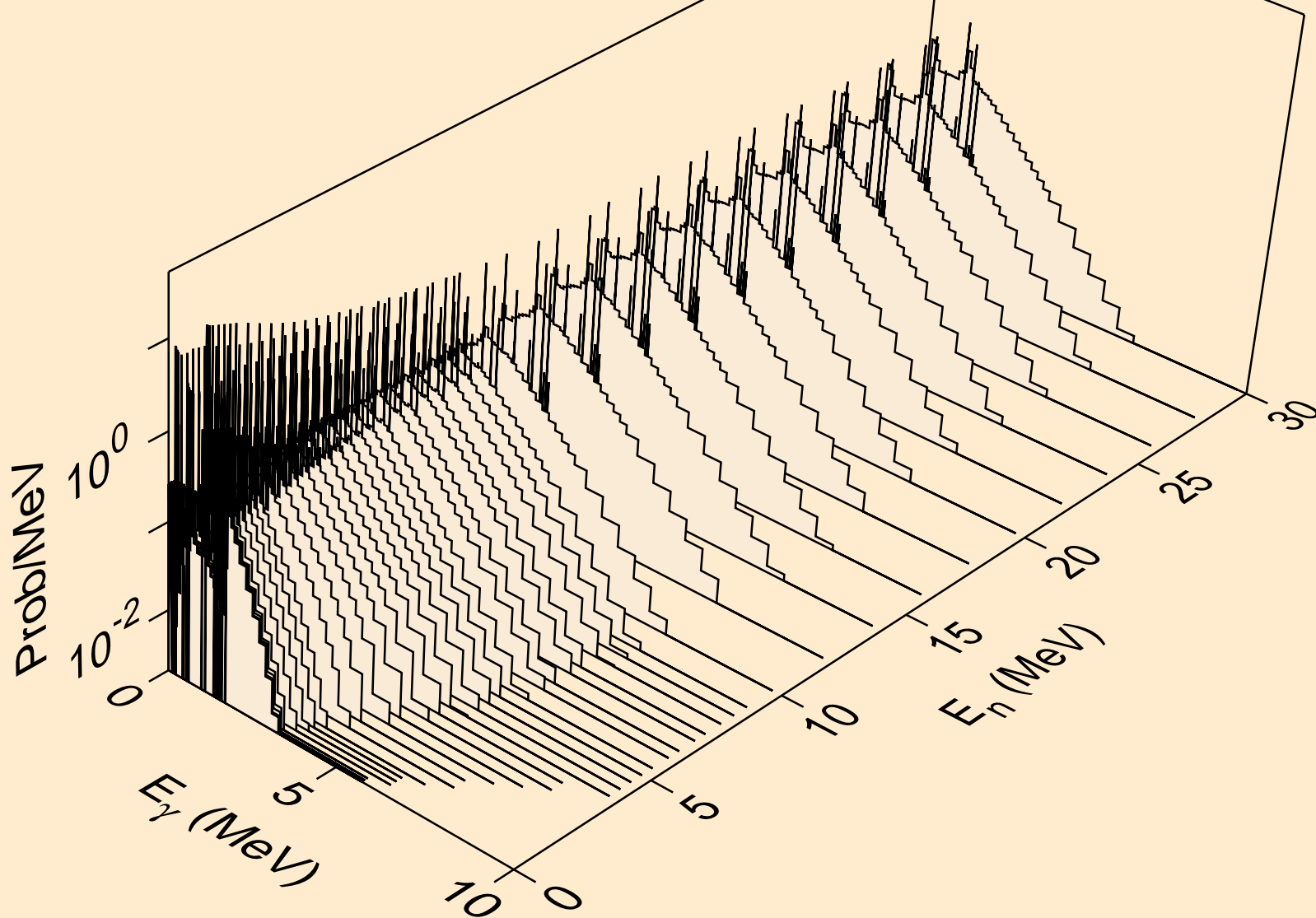
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Photon emission for (n,n\*c)



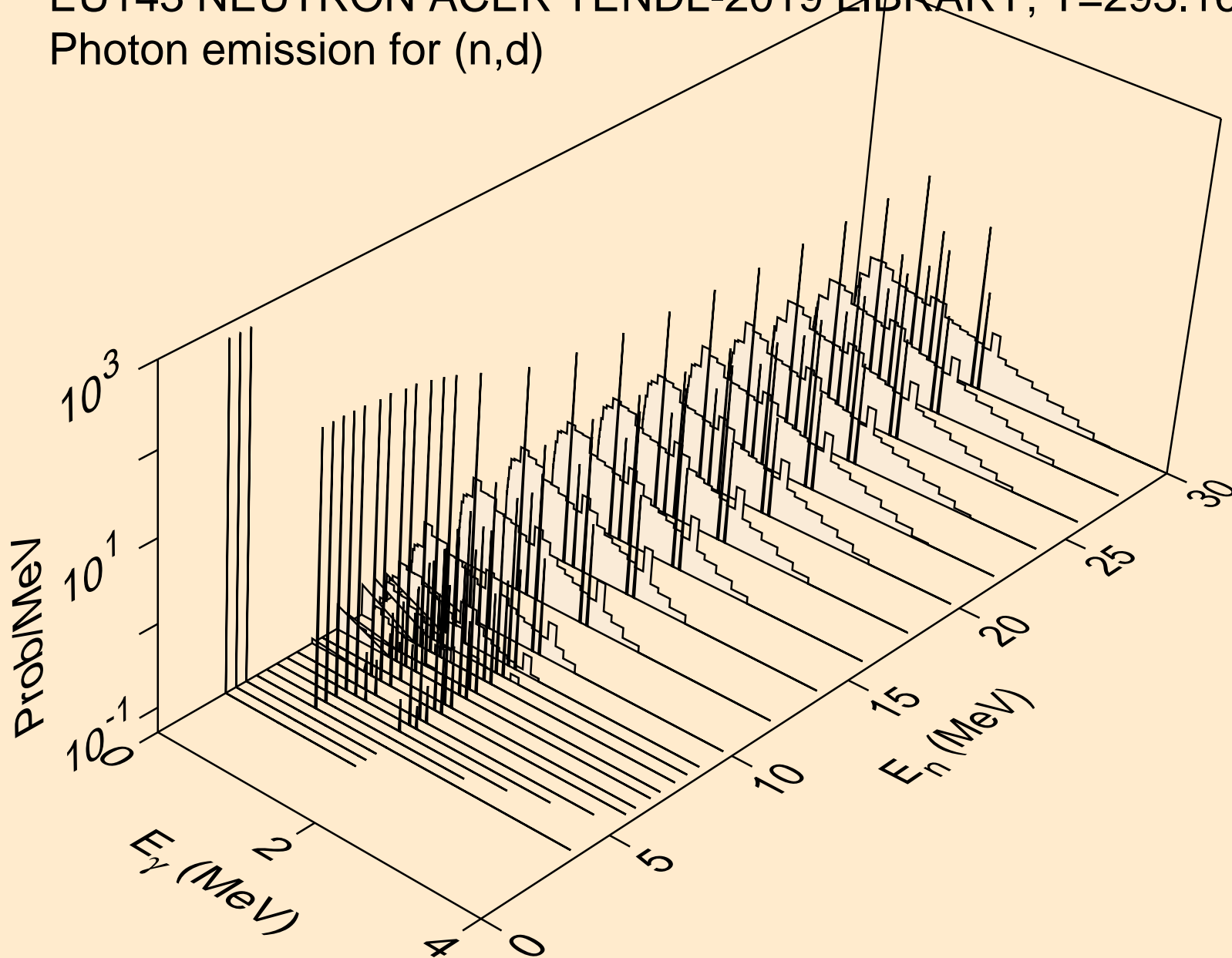
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Photon emission for (n,gma)



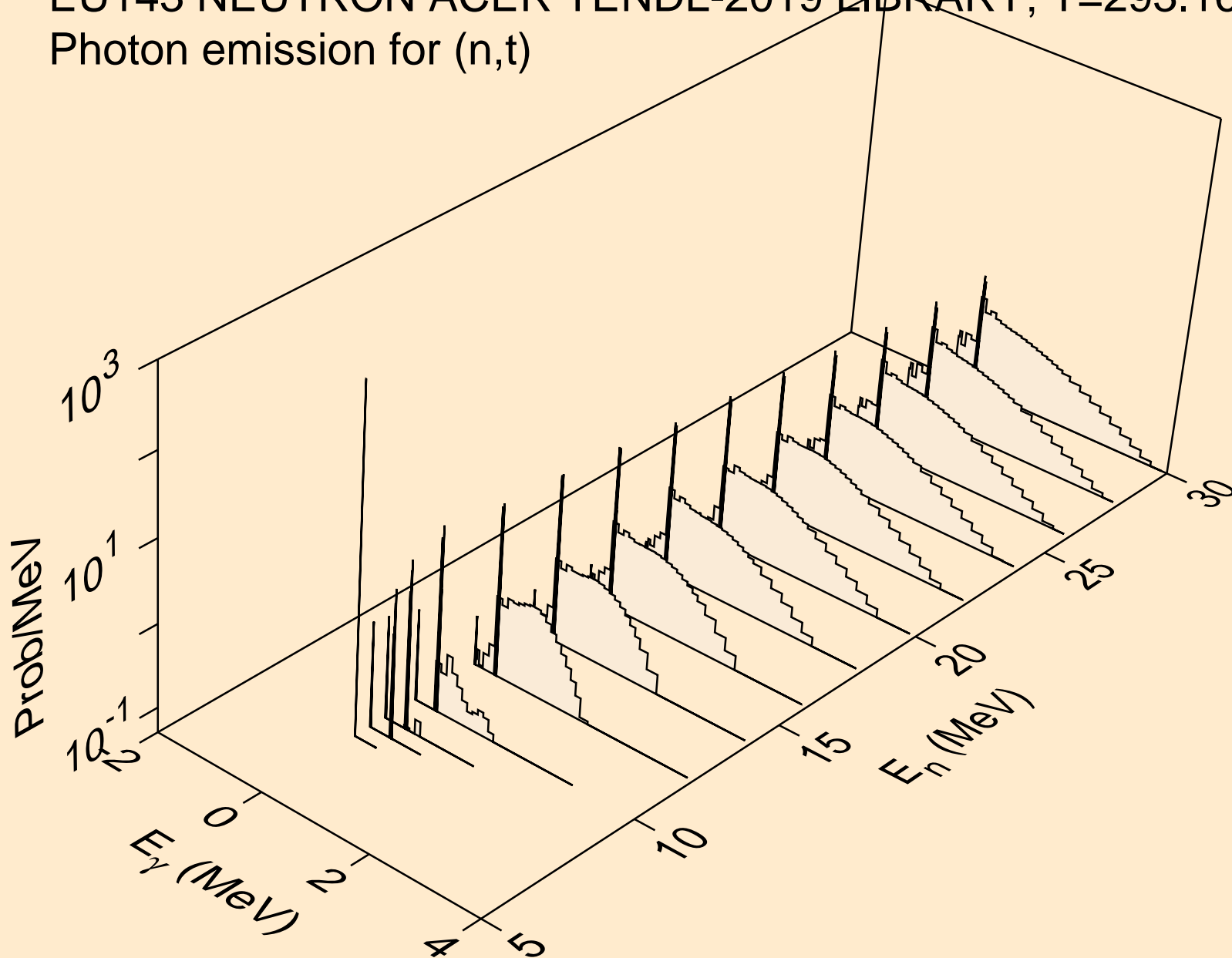
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Photon emission for (n,p)



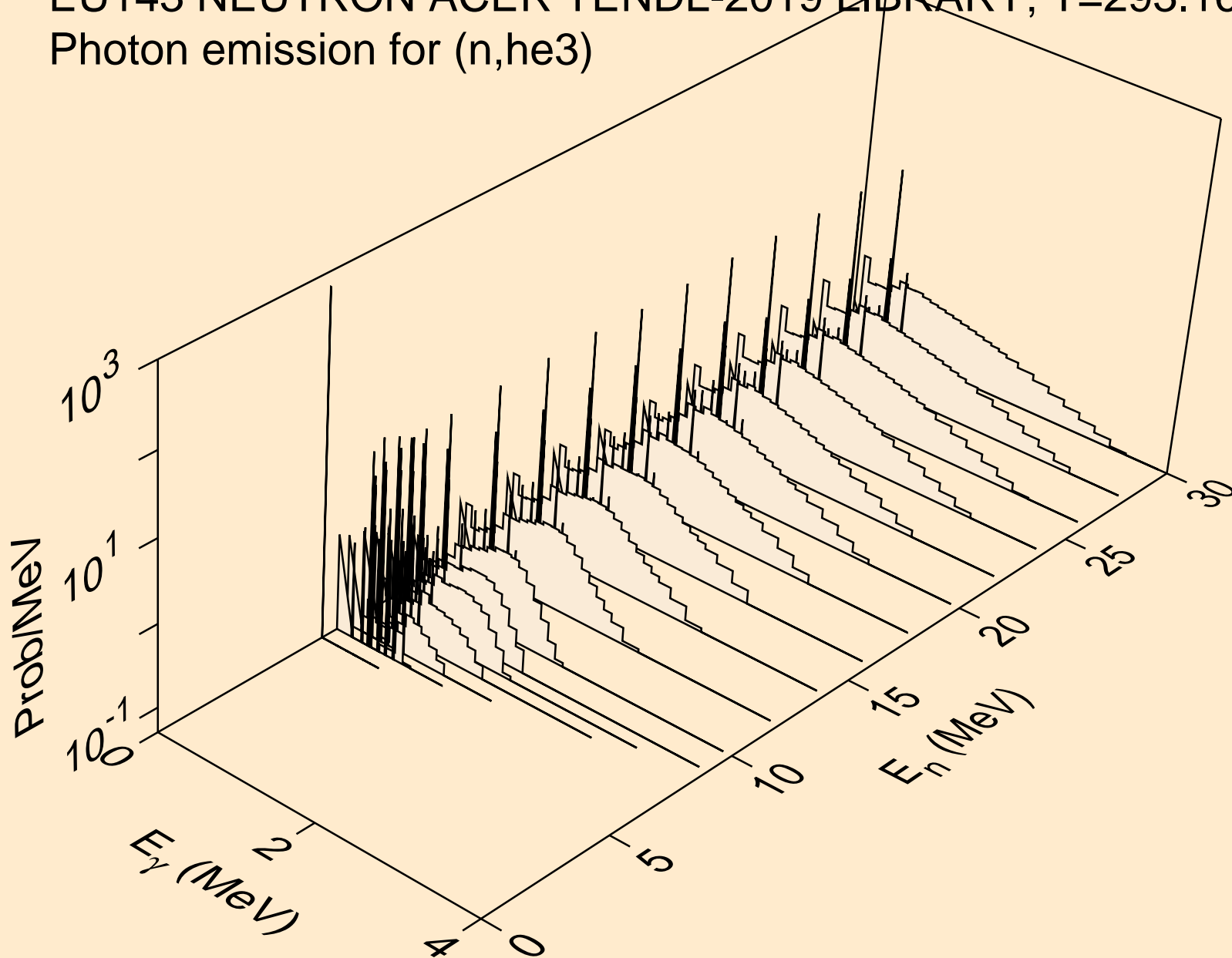
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Photon emission for (n,d)



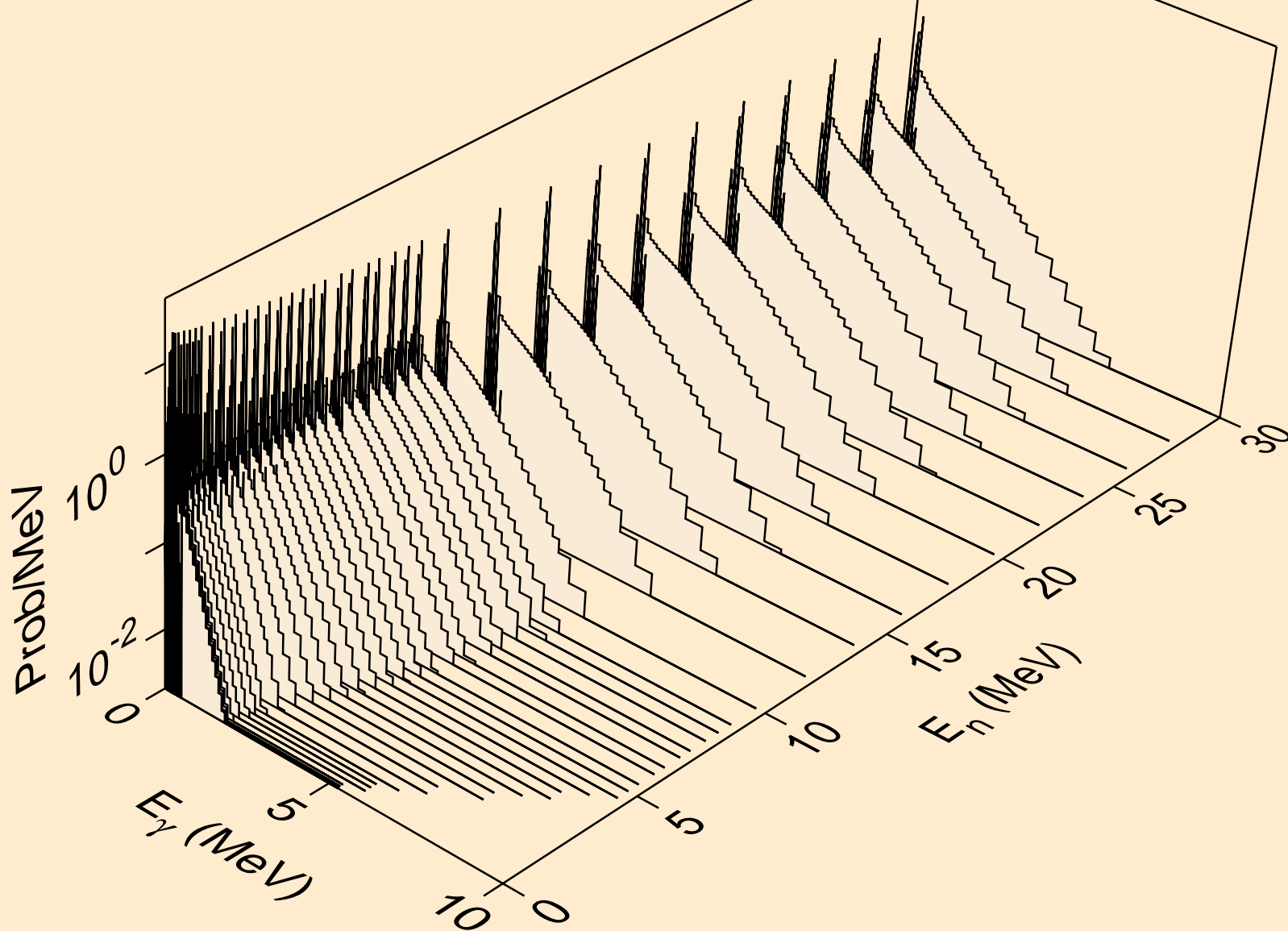
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Photon emission for (n,t)



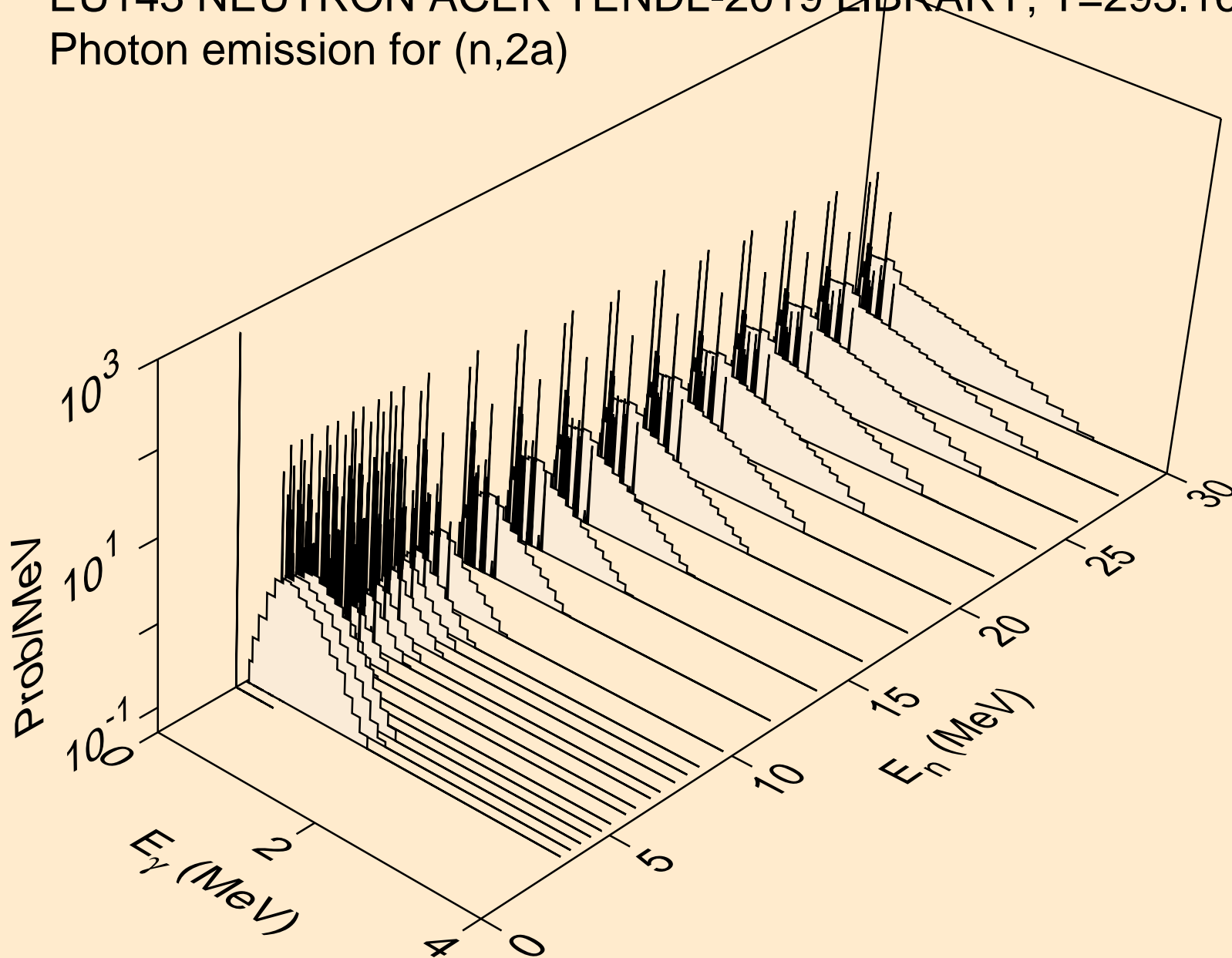
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Photon emission for (n,he3)



EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,a)

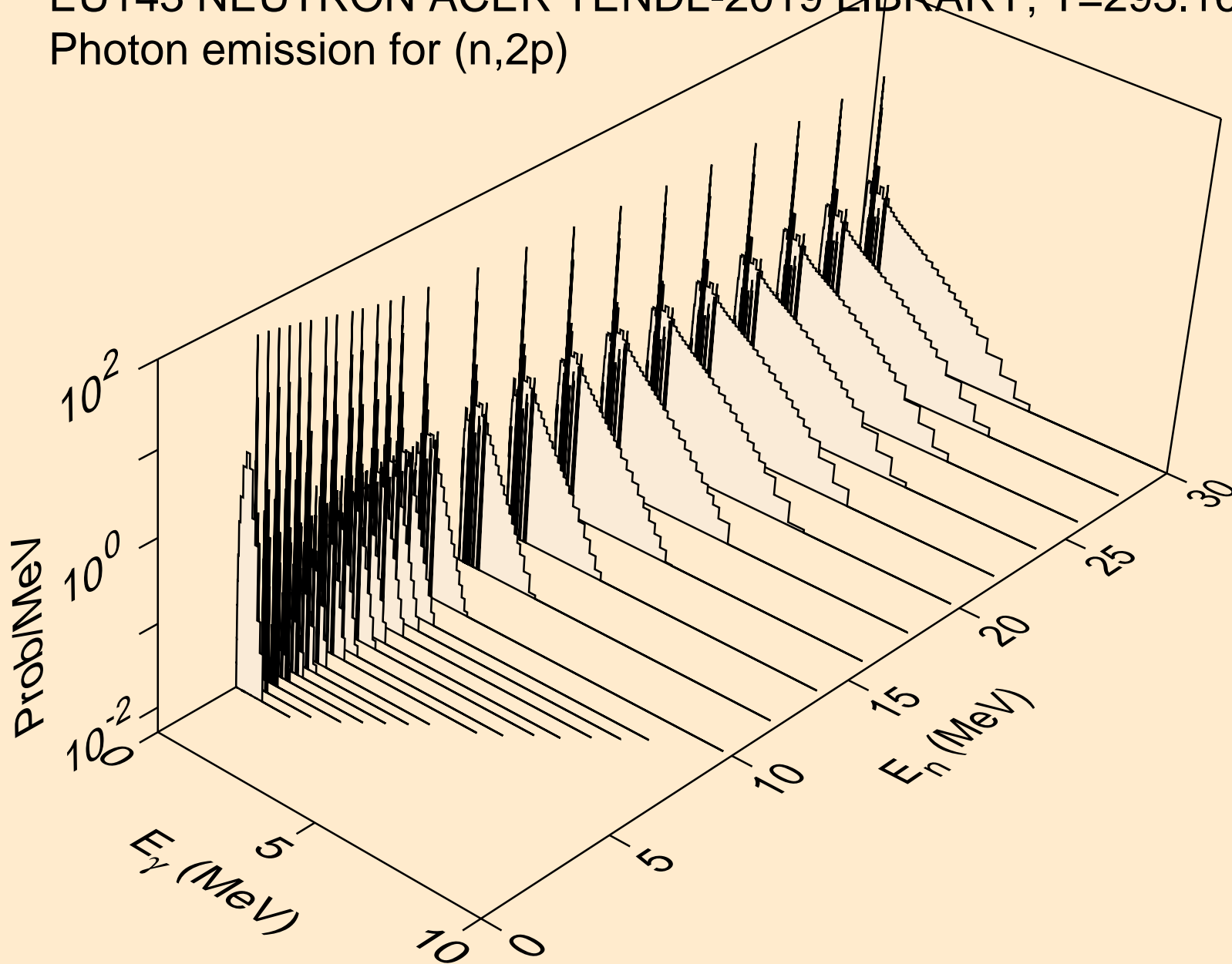


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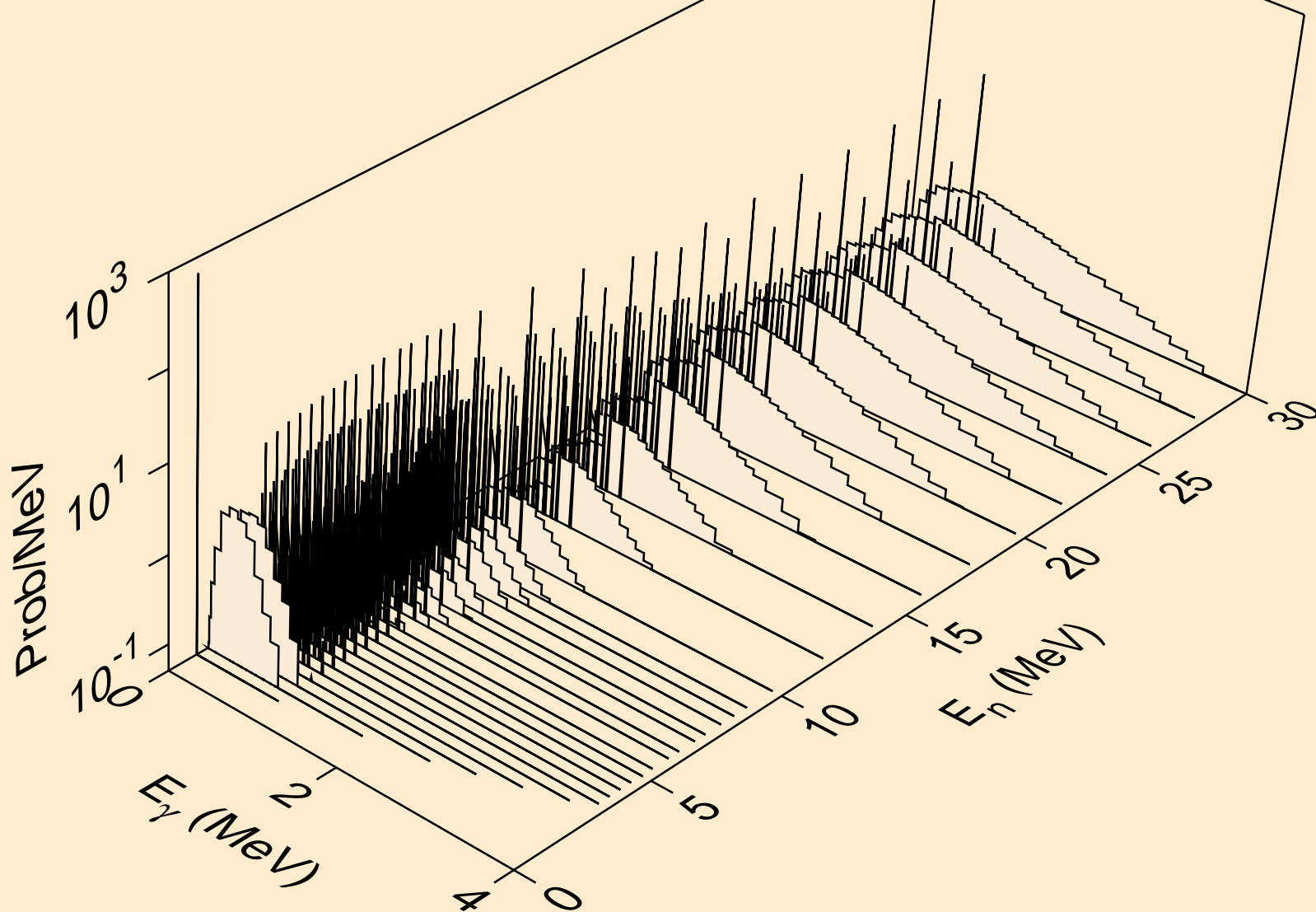




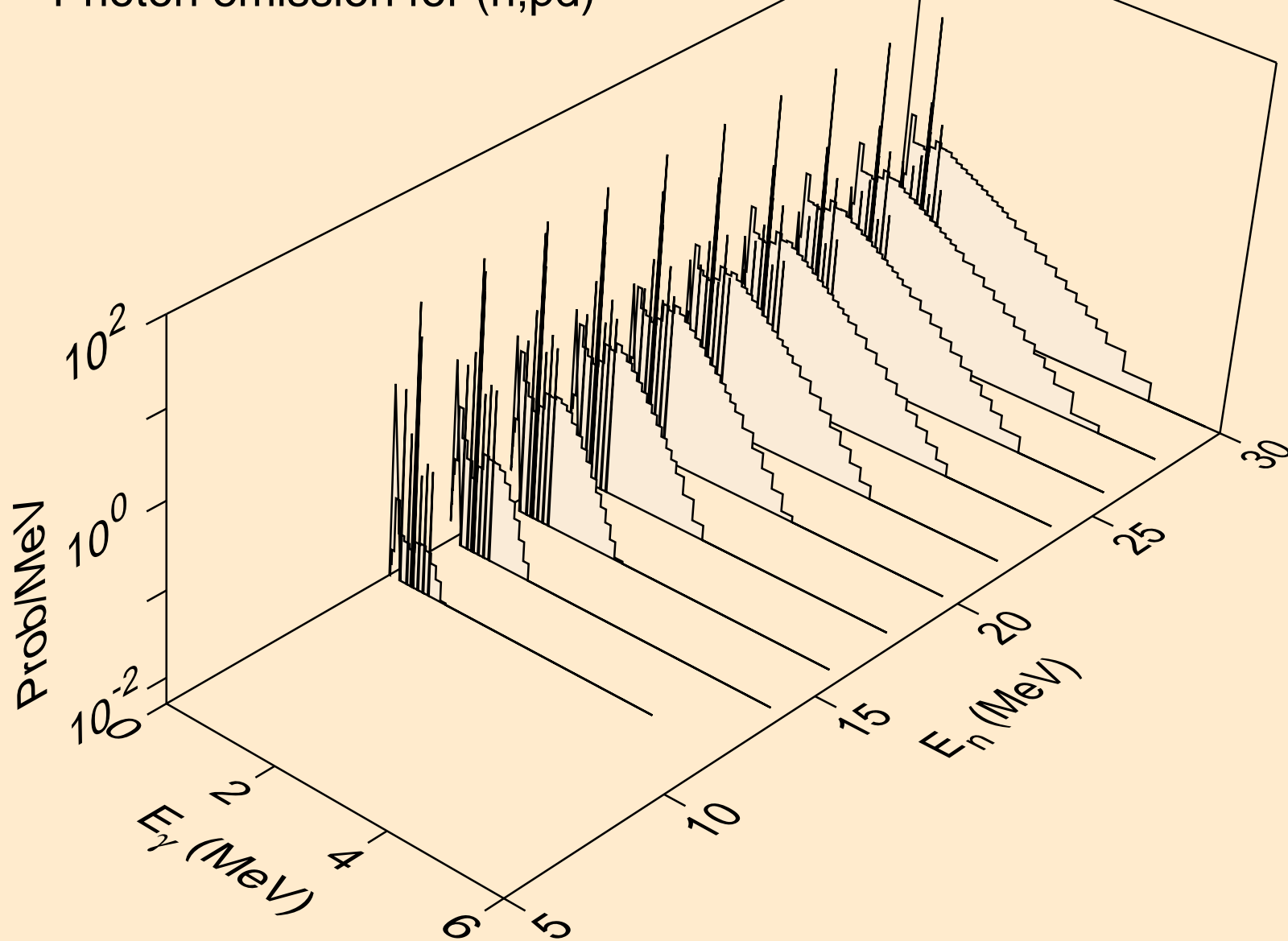
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Photon emission for (n,2p)



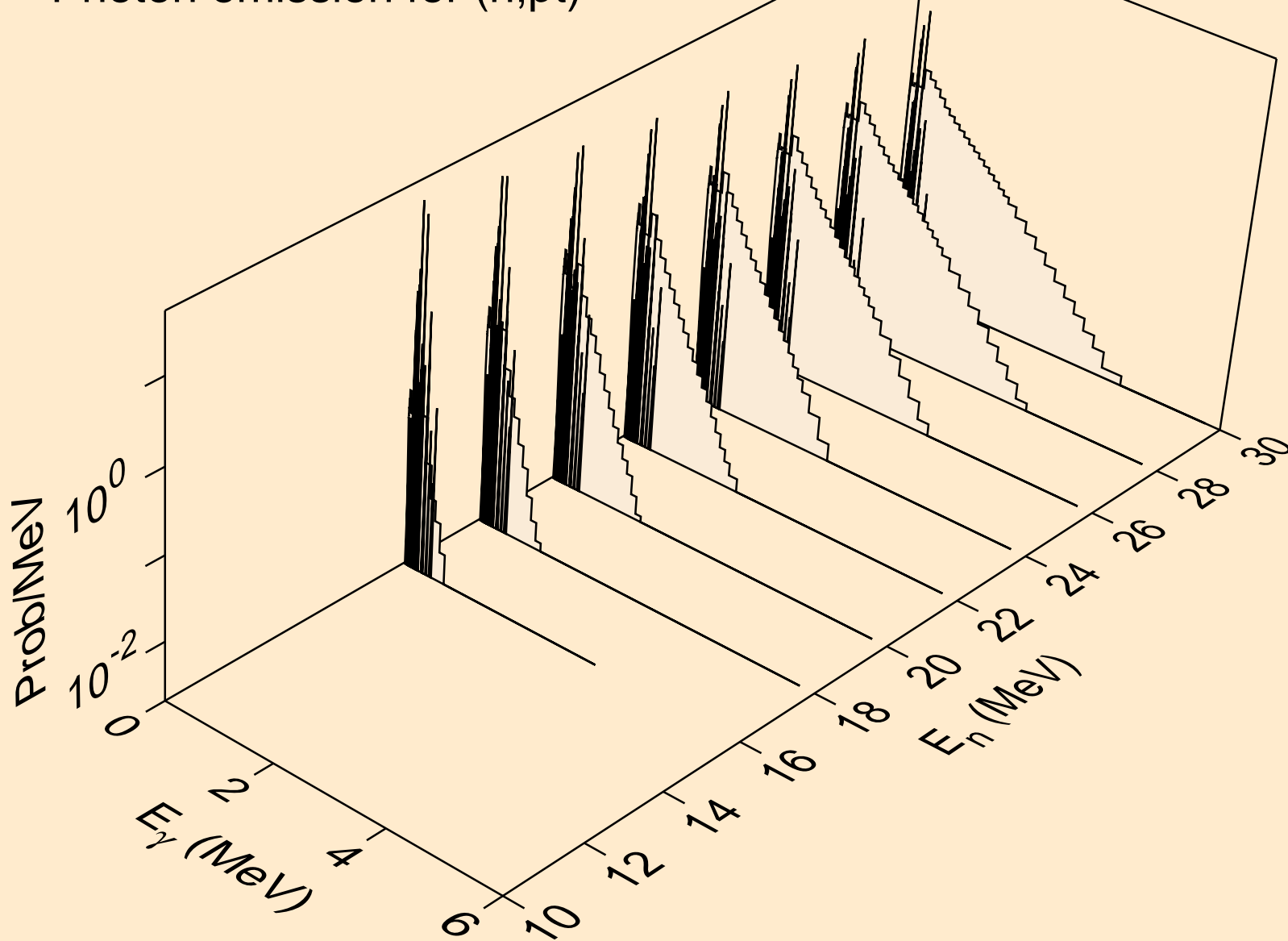
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Photon emission for (n,p $\alpha$ )



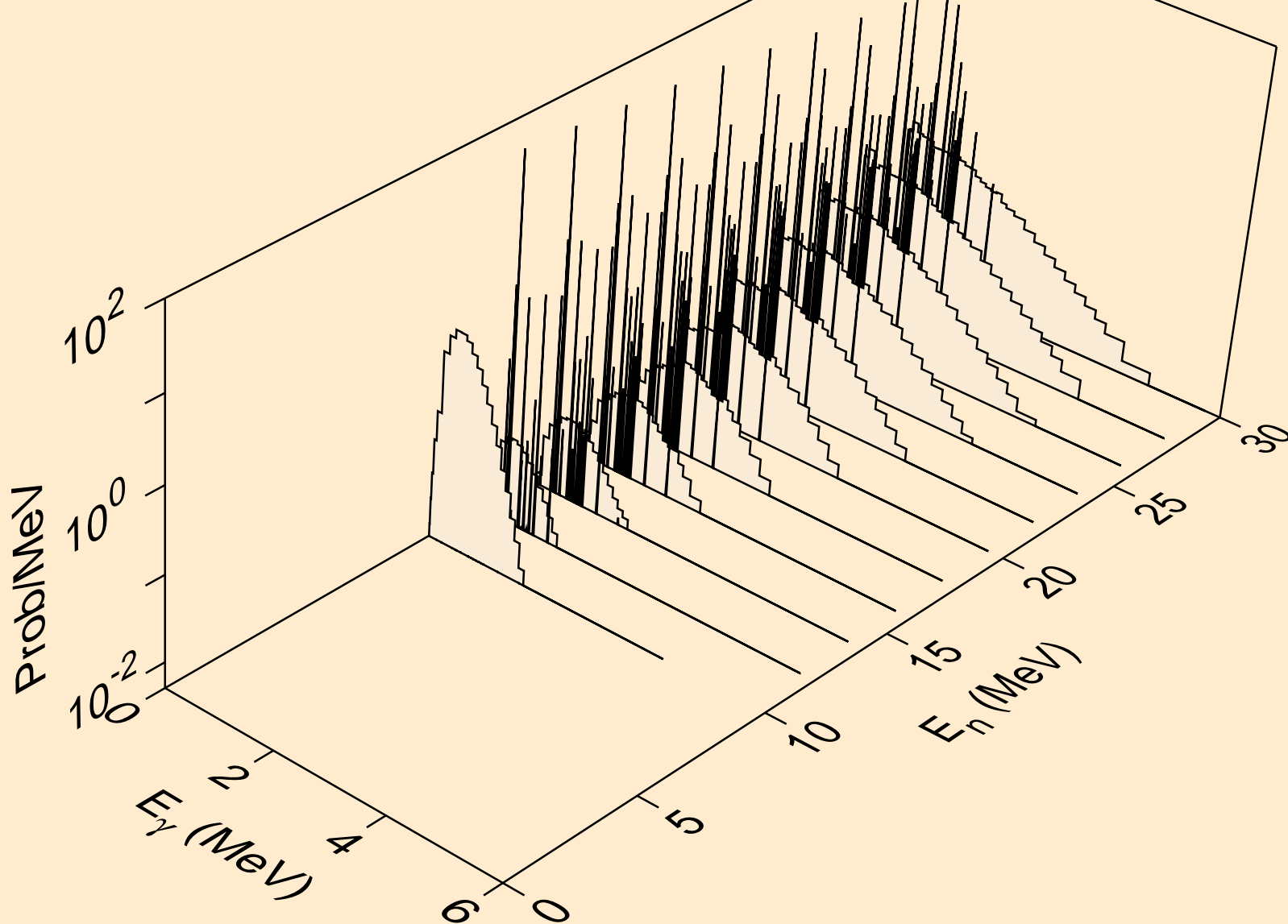
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Photon emission for (n,pd)



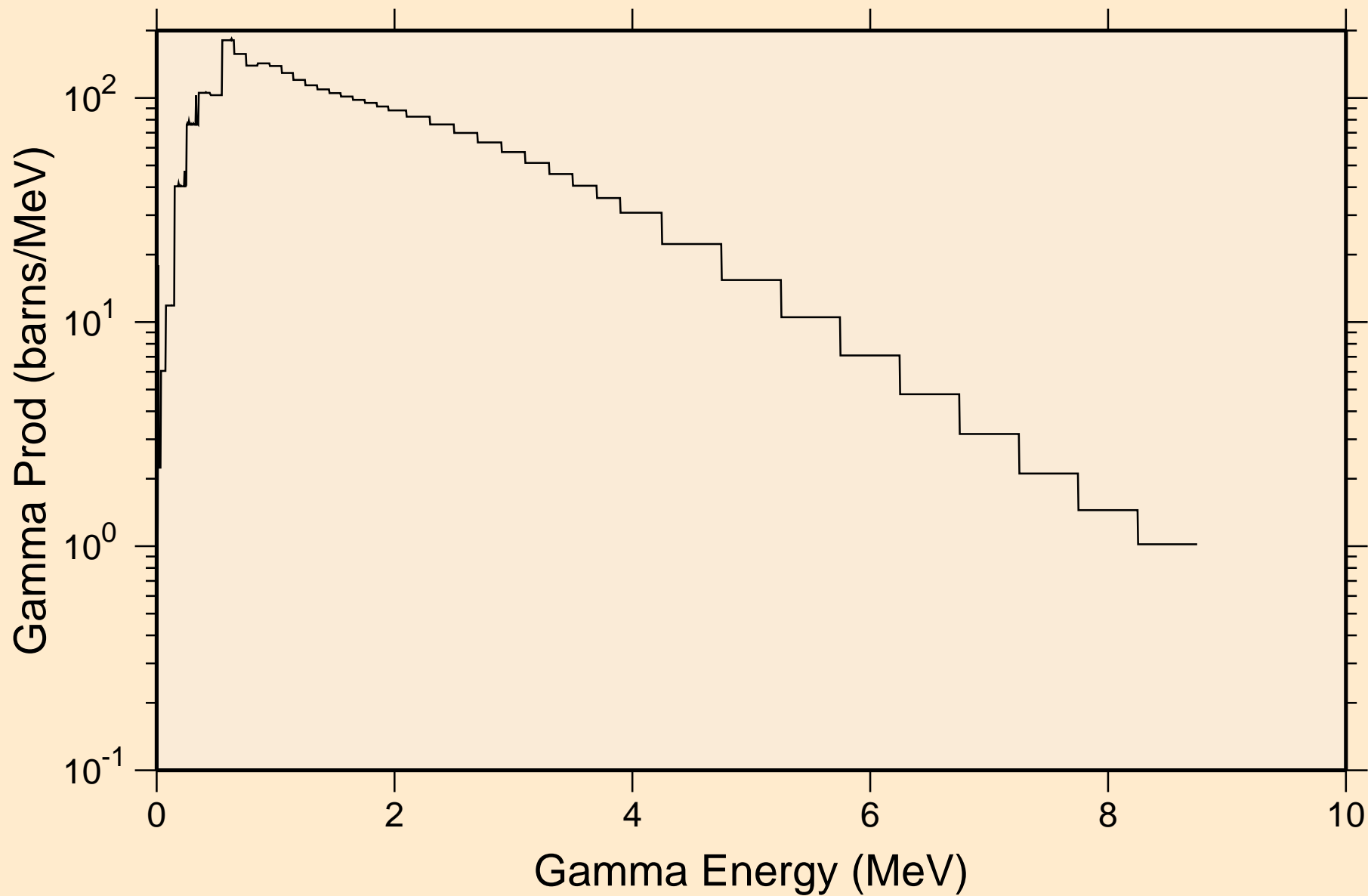
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Photon emission for (n,pt)



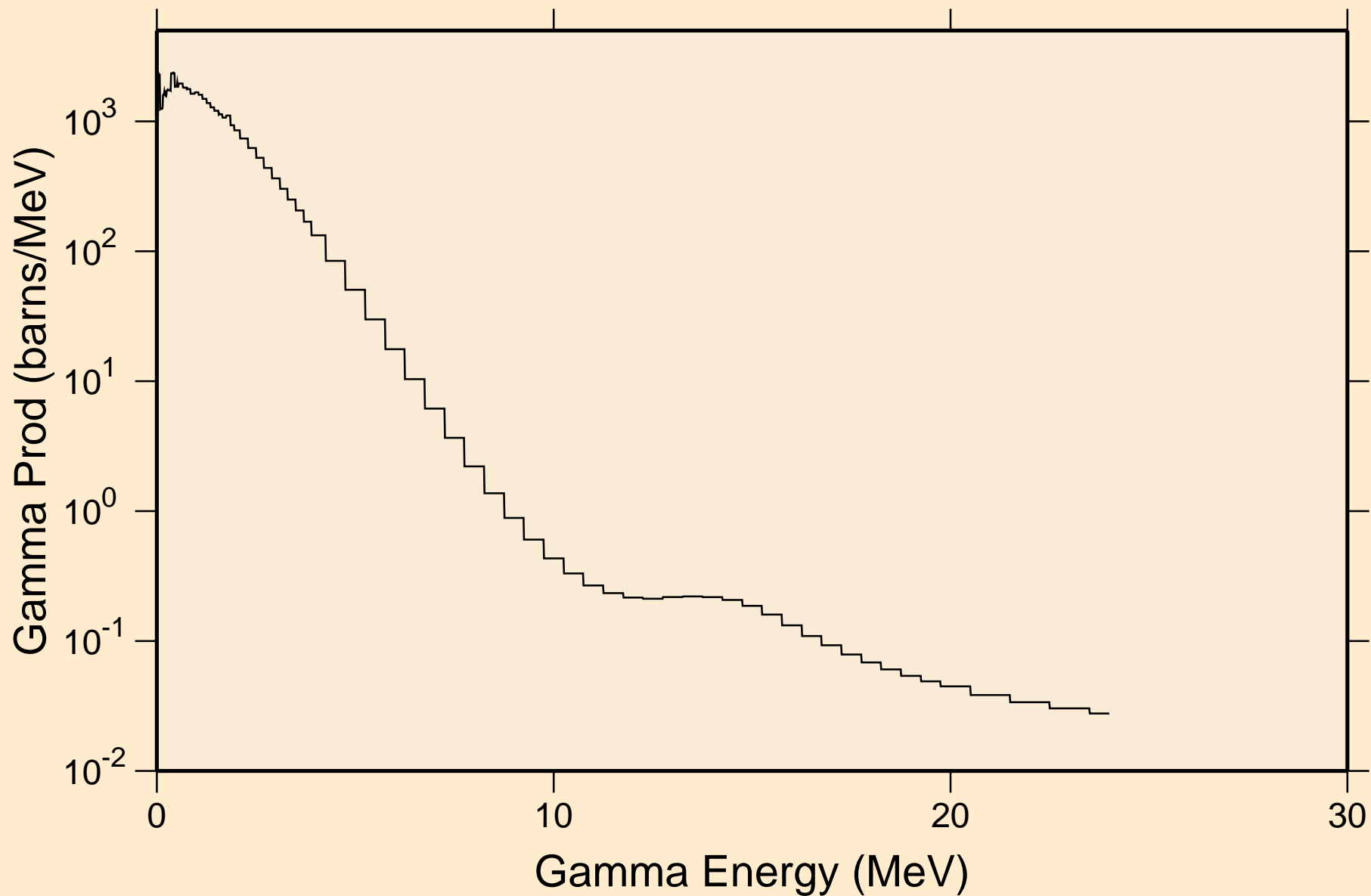
EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,da)



EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
thermal capture photon spectrum

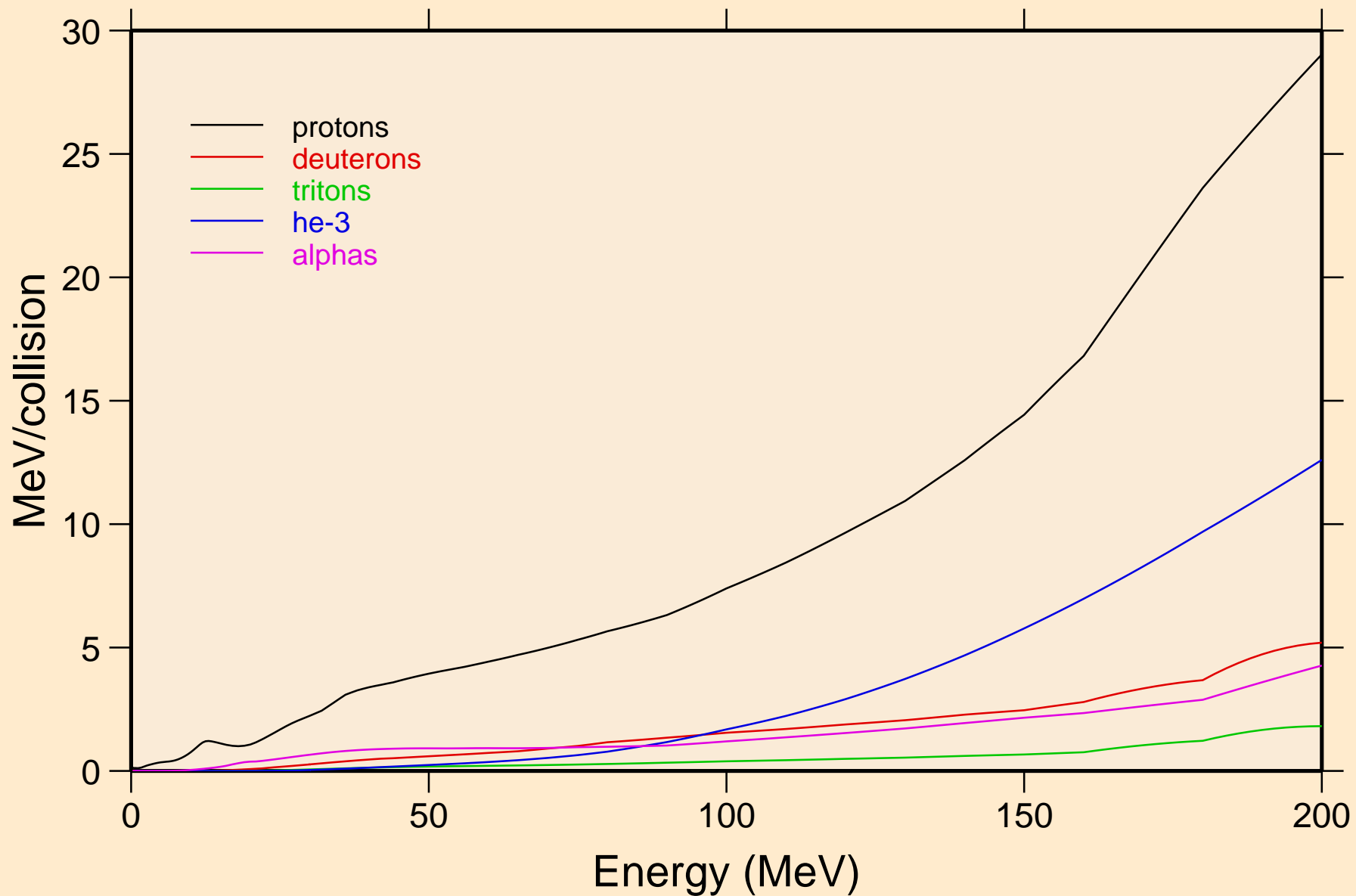


EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
14 MeV photon spectrum



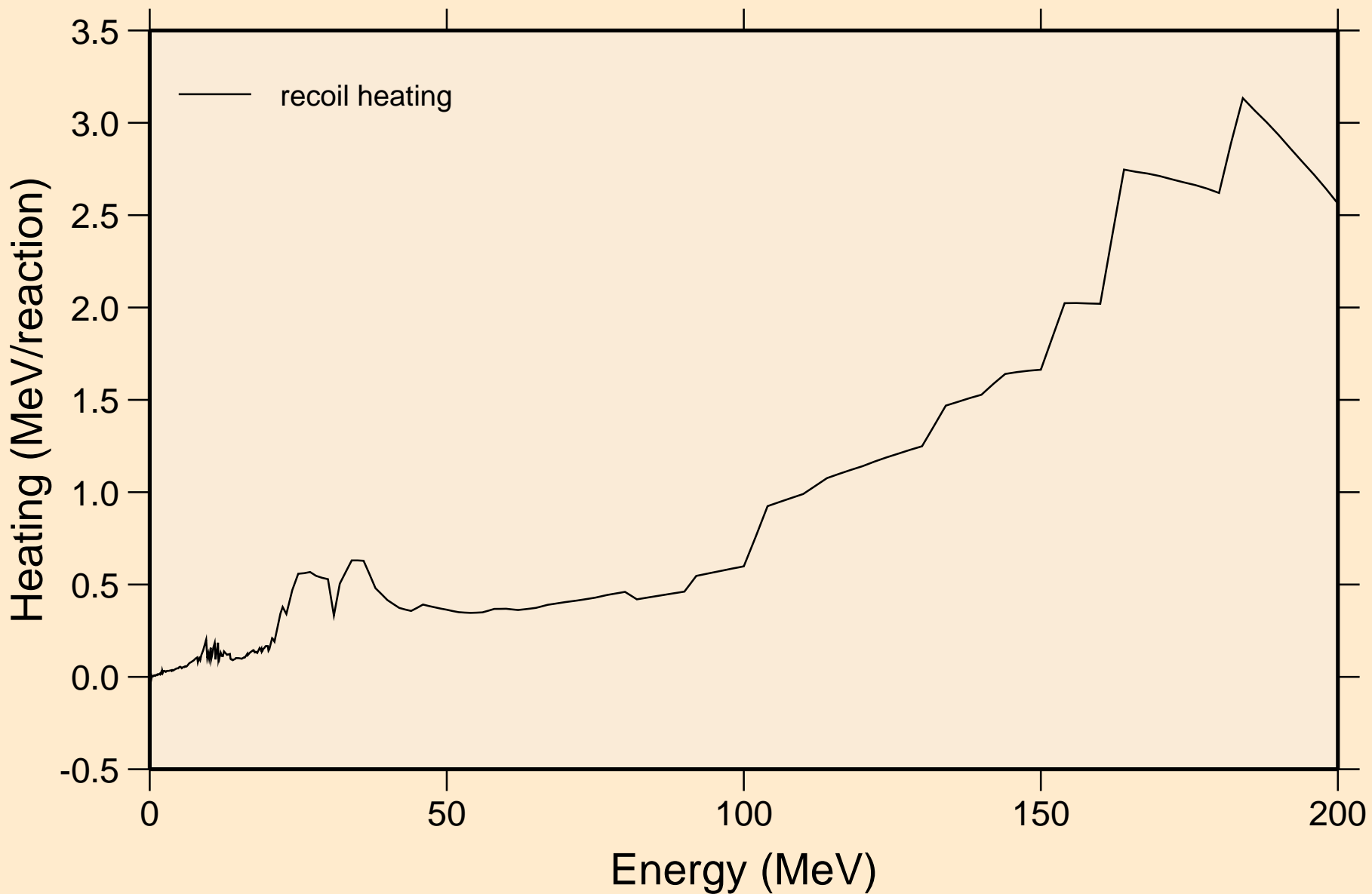
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## Particle heating contributions

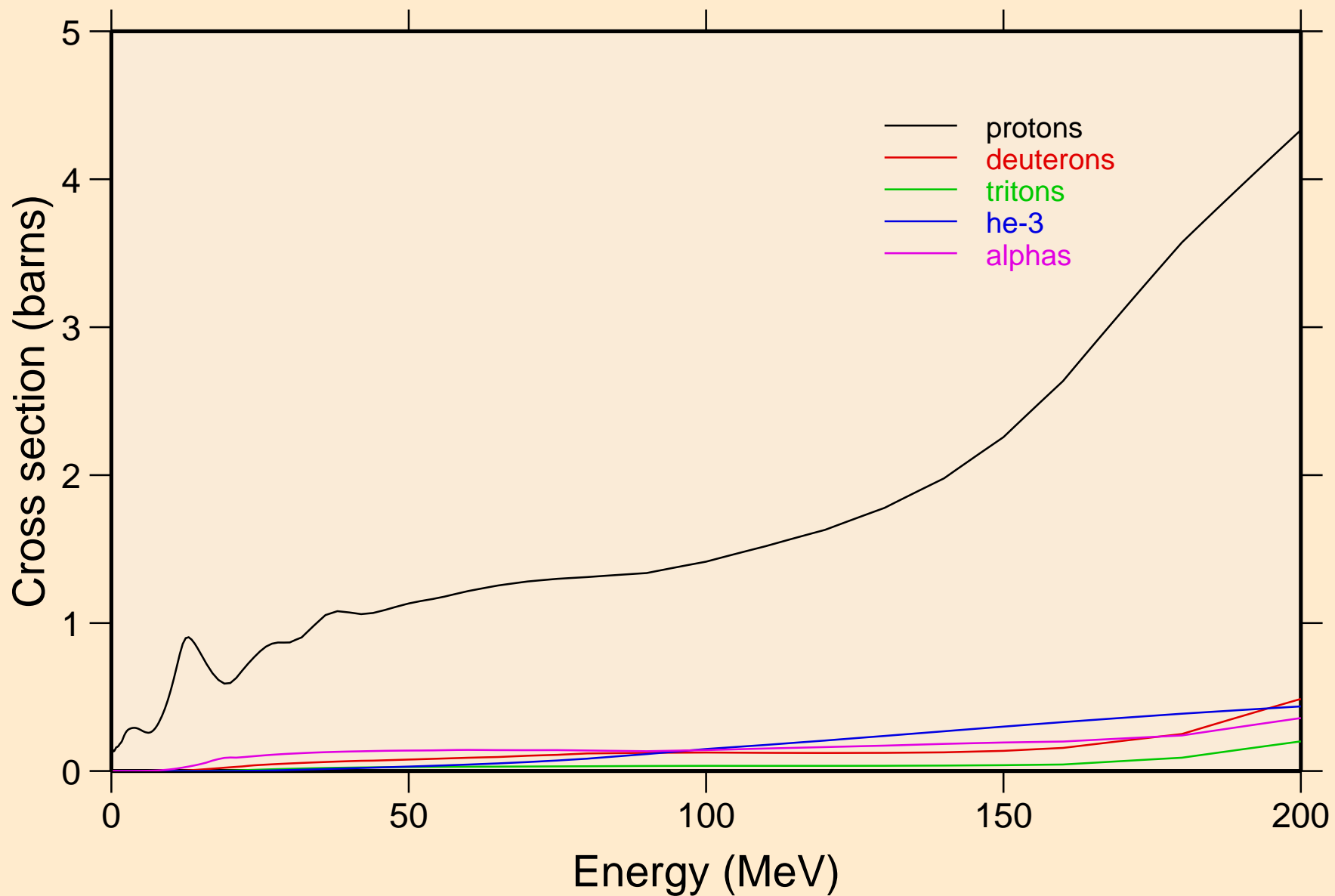




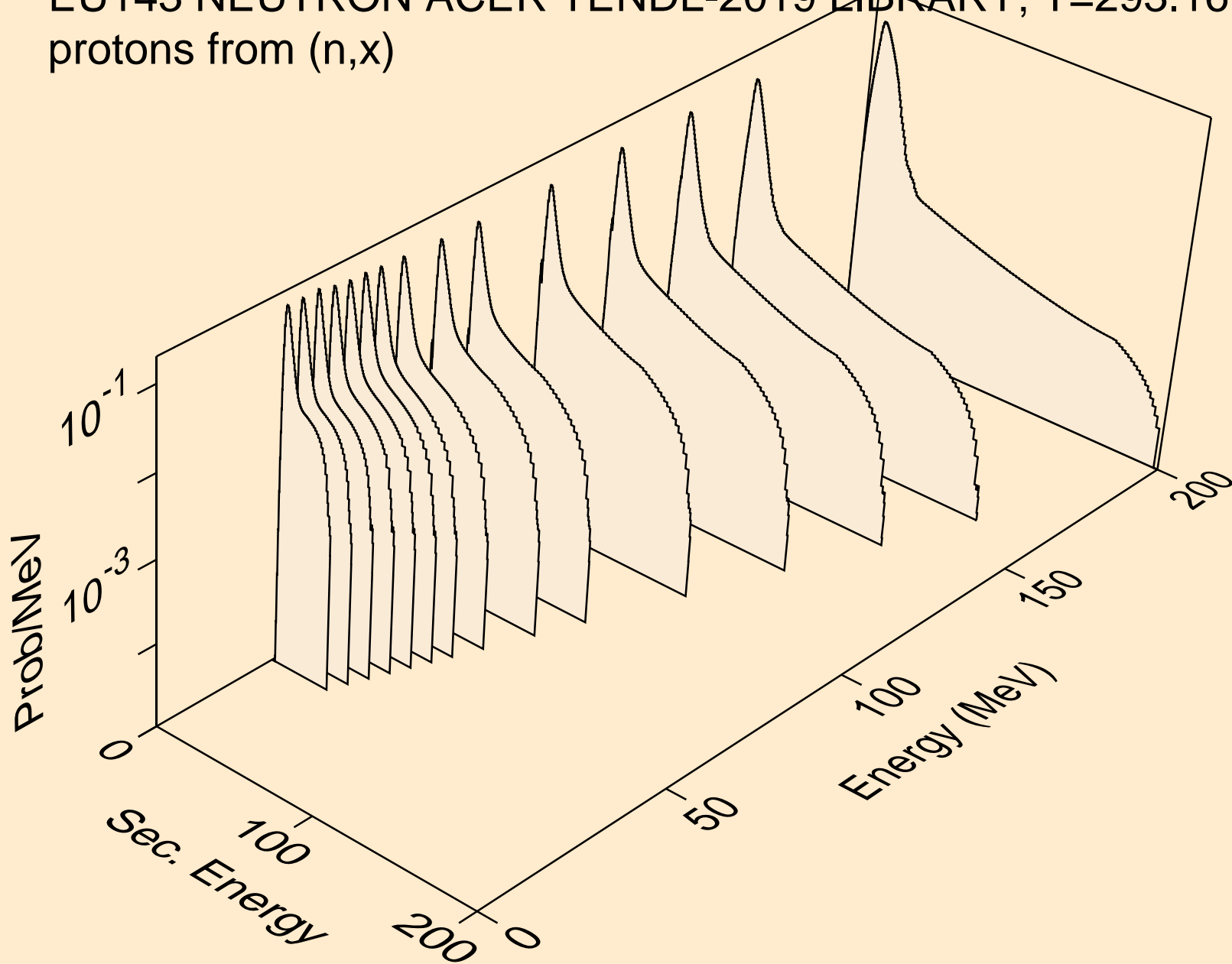
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Recoil Heating



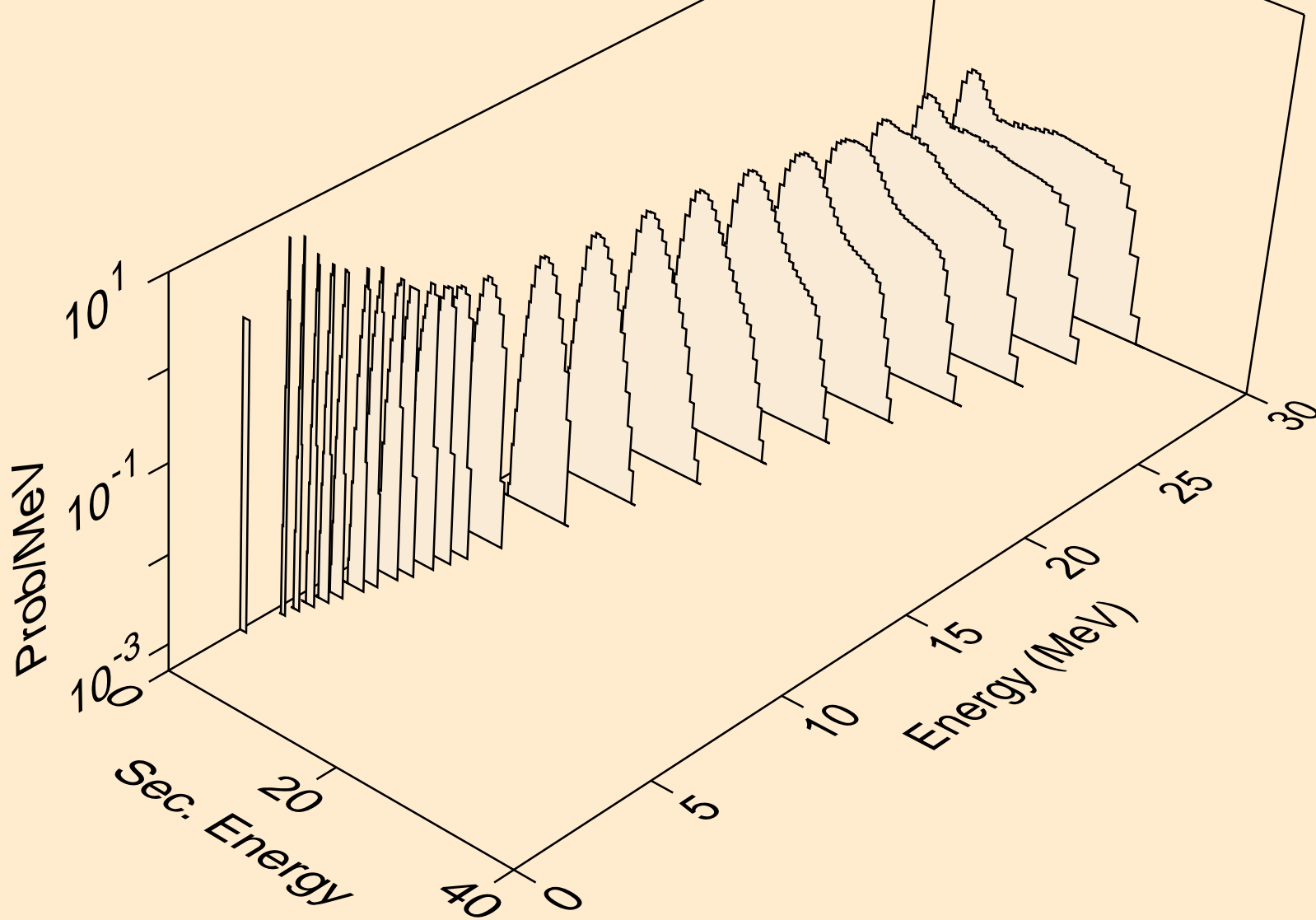
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Particle production cross sections



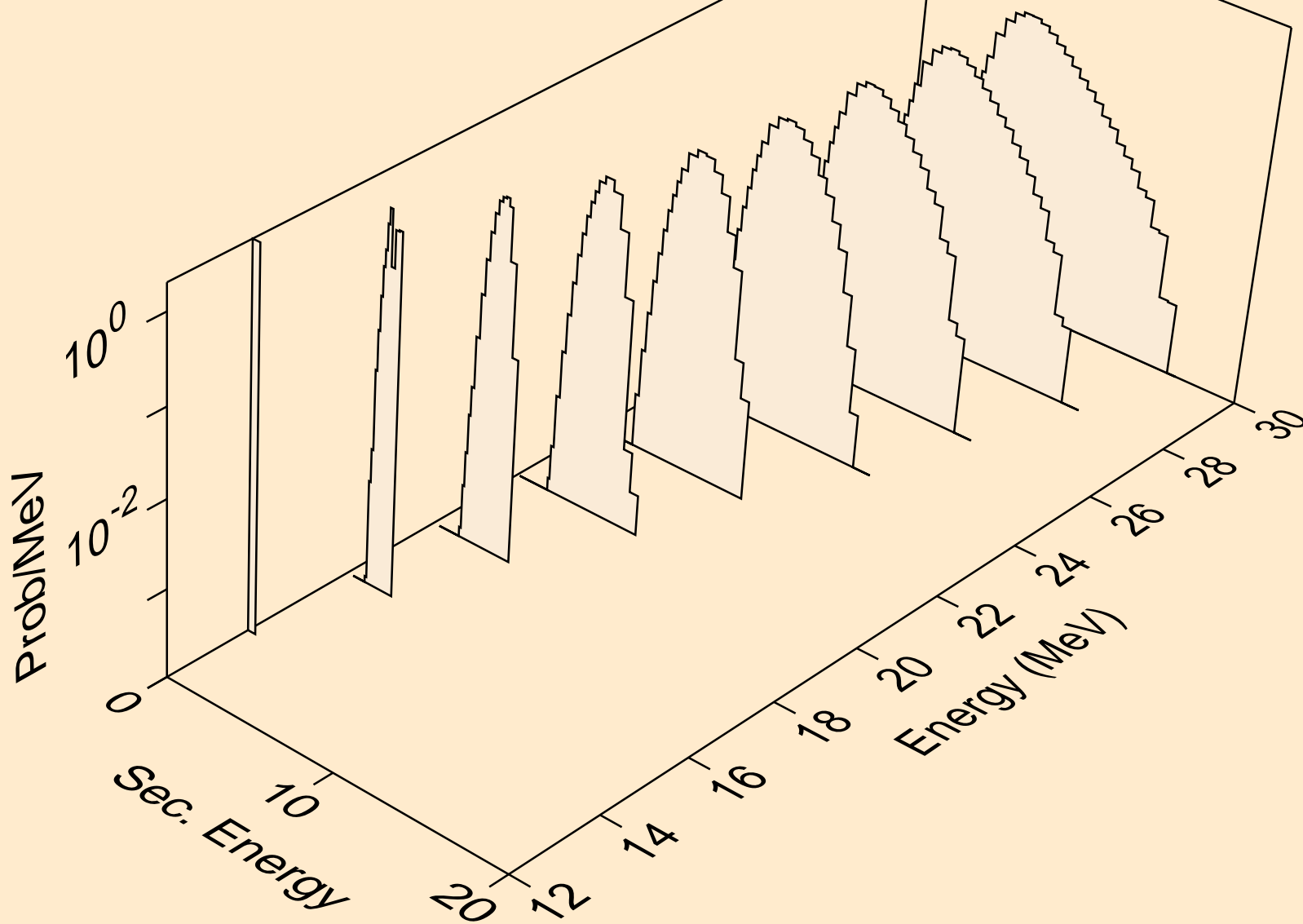
EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,x)



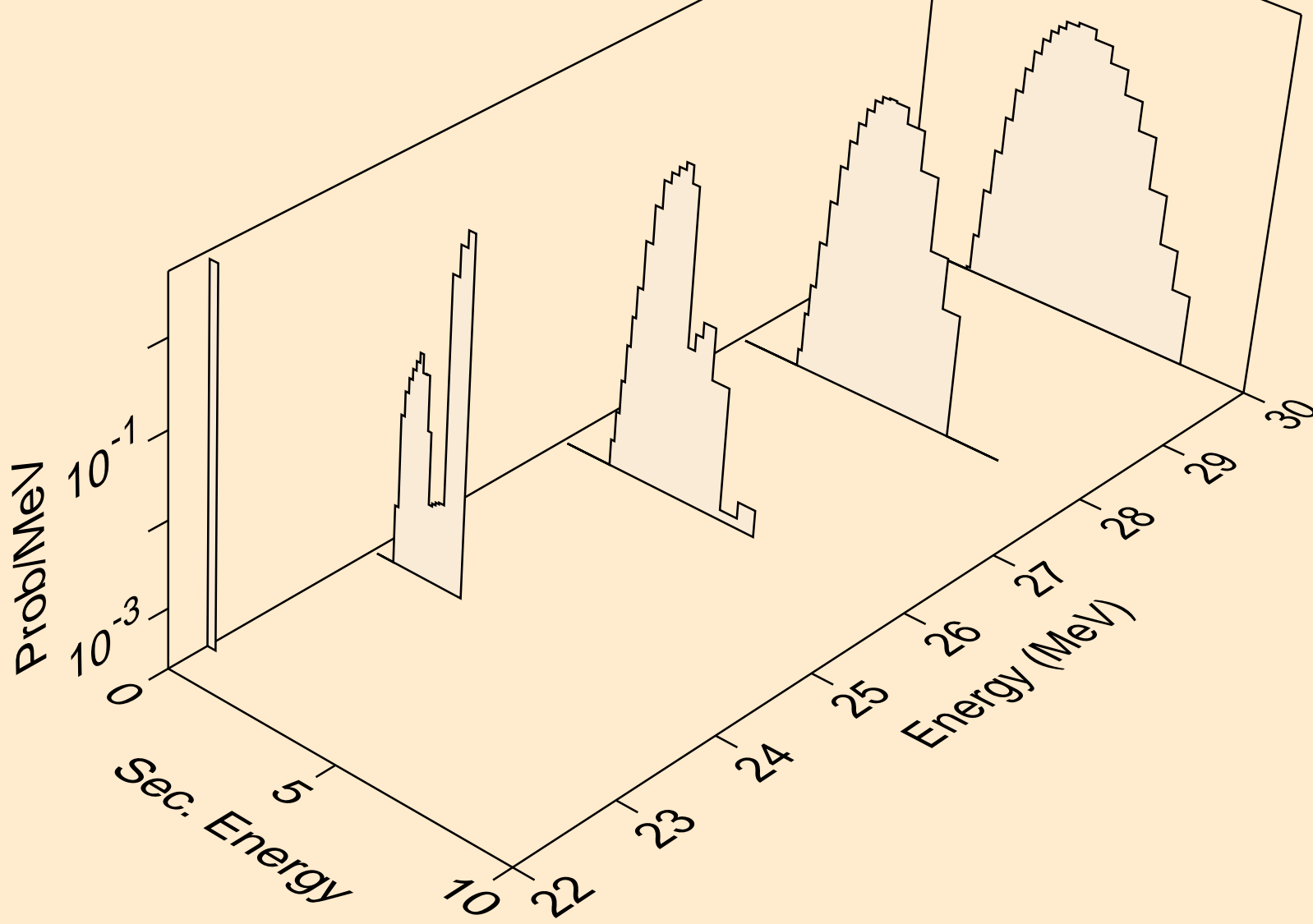
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protons from (n,n\*)p



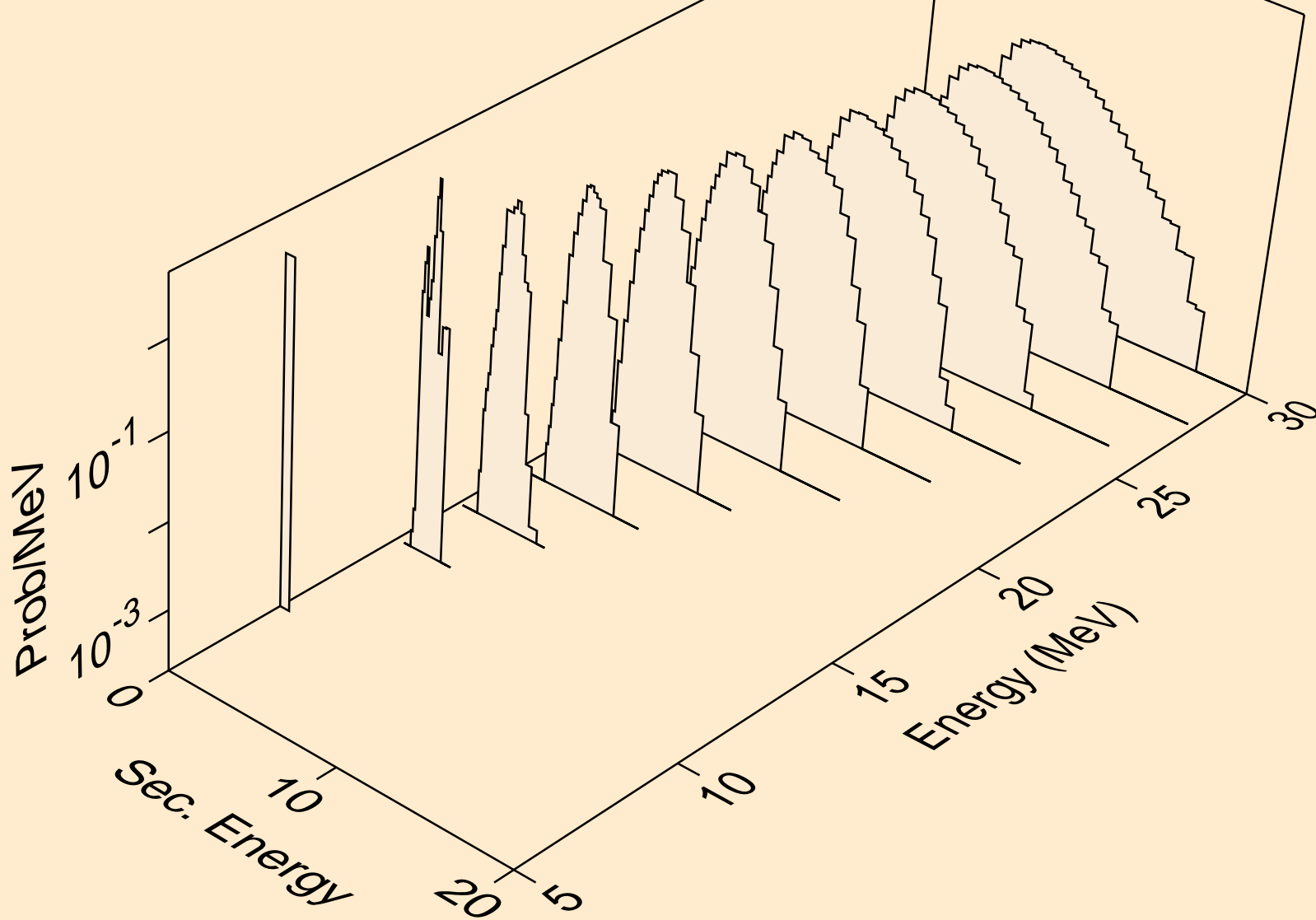
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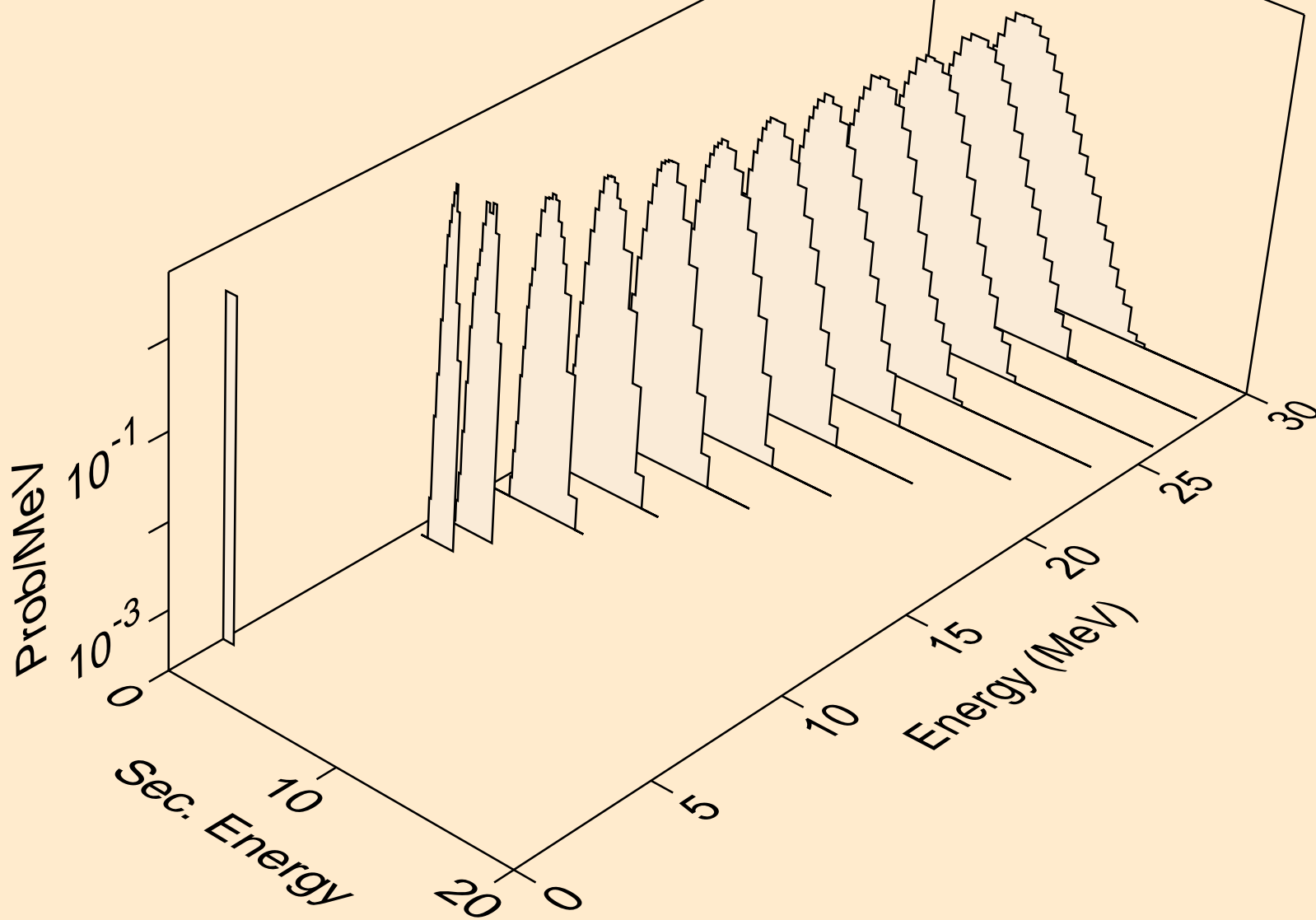
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protons from (n,3np)



EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
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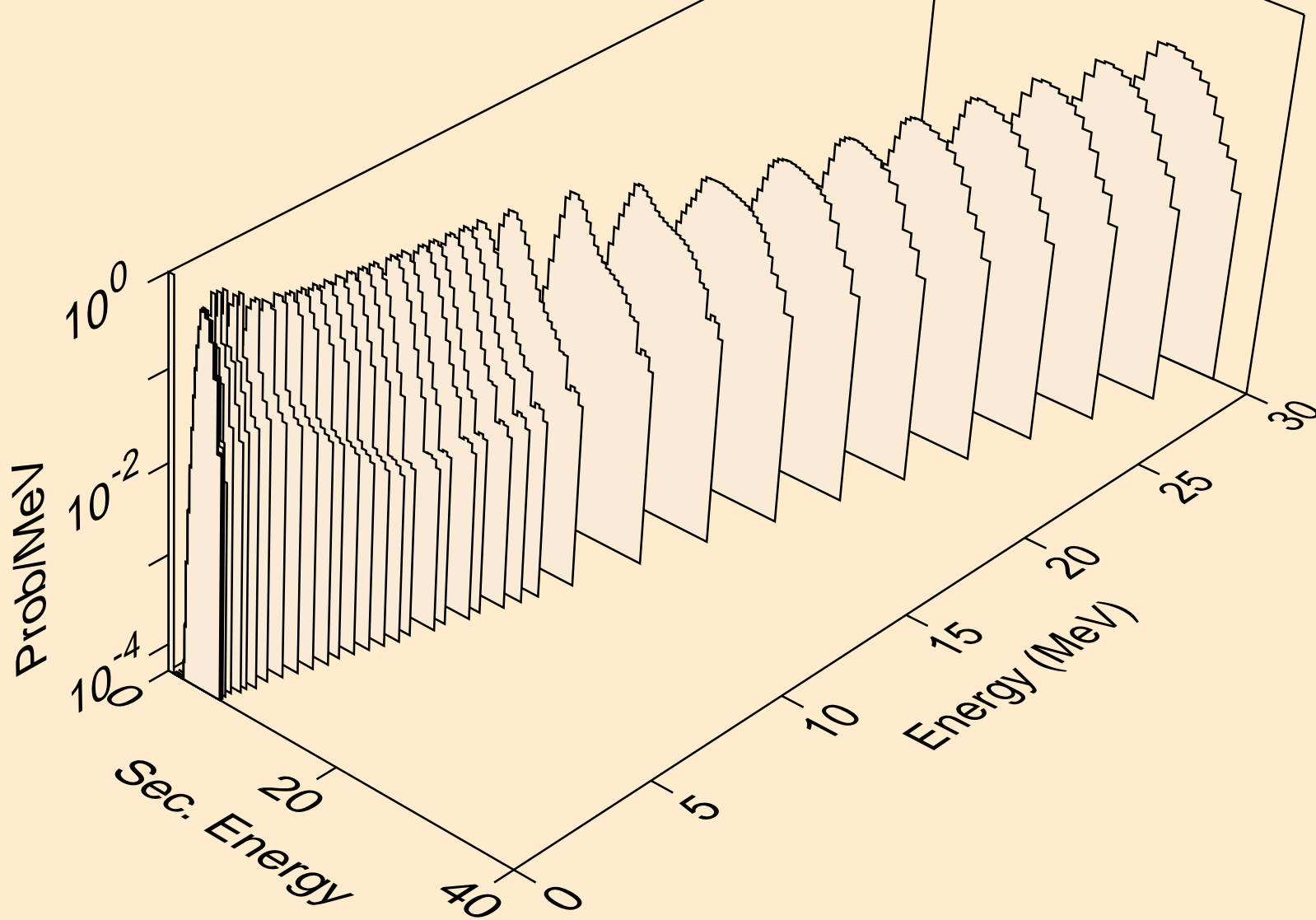


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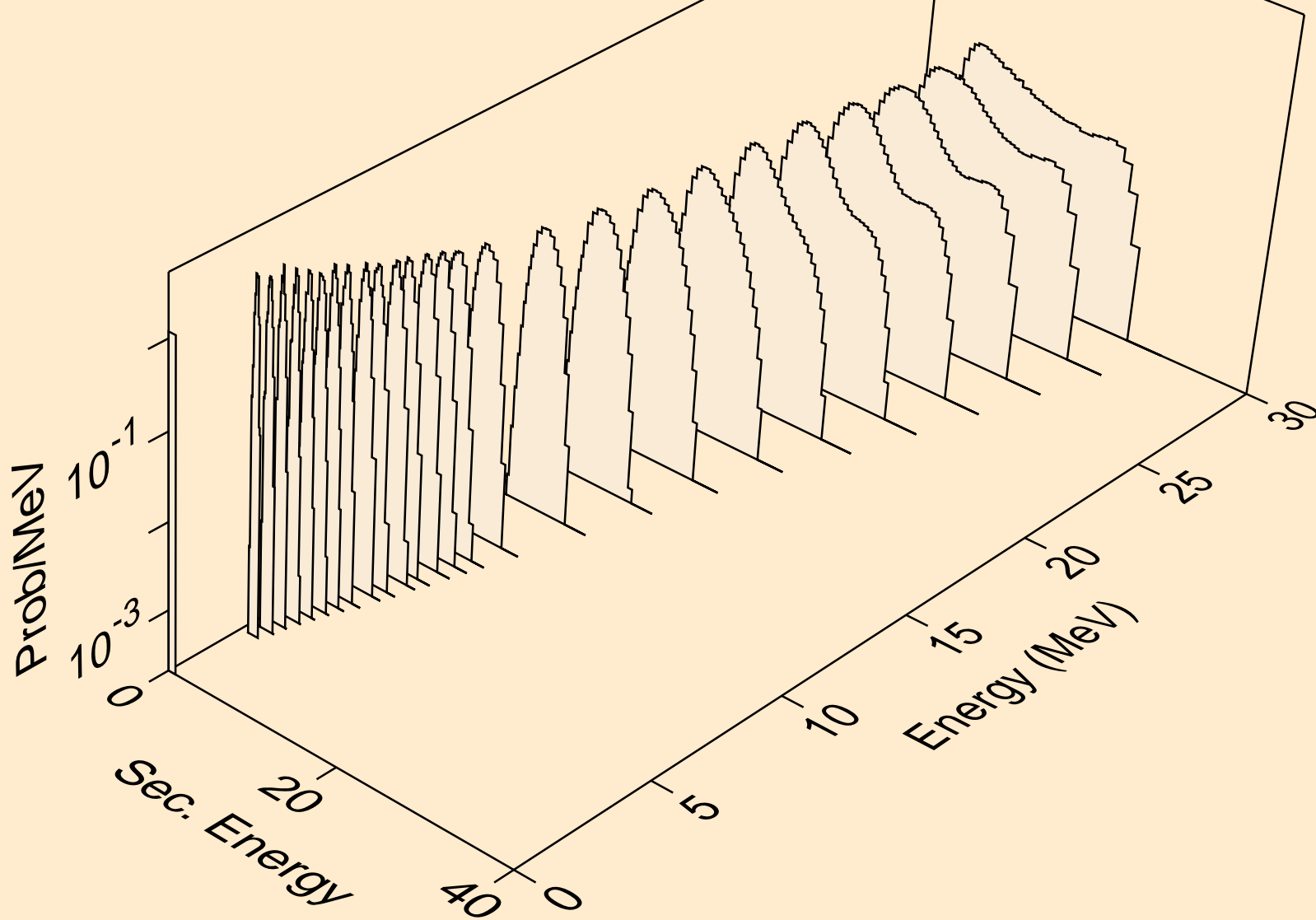




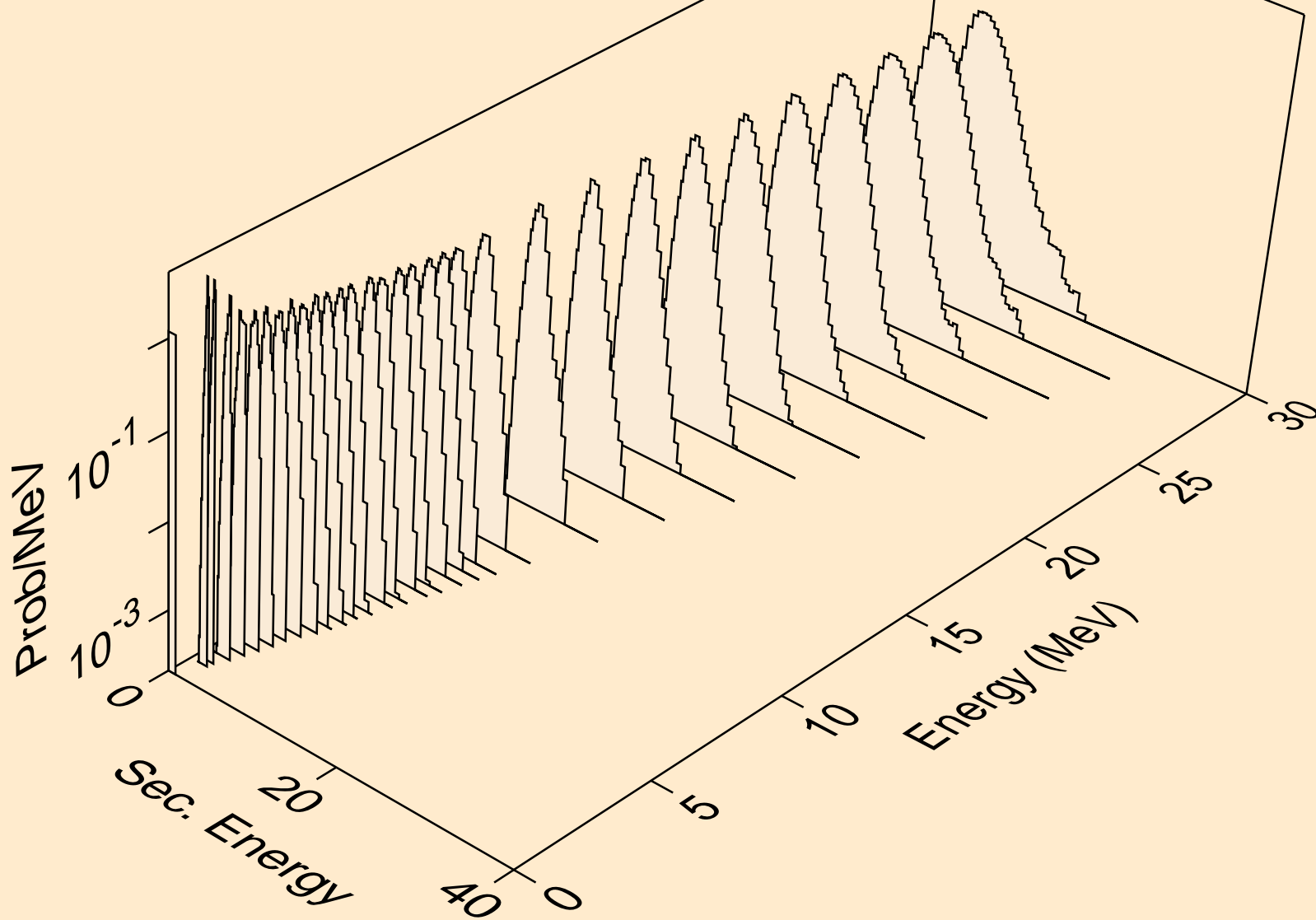
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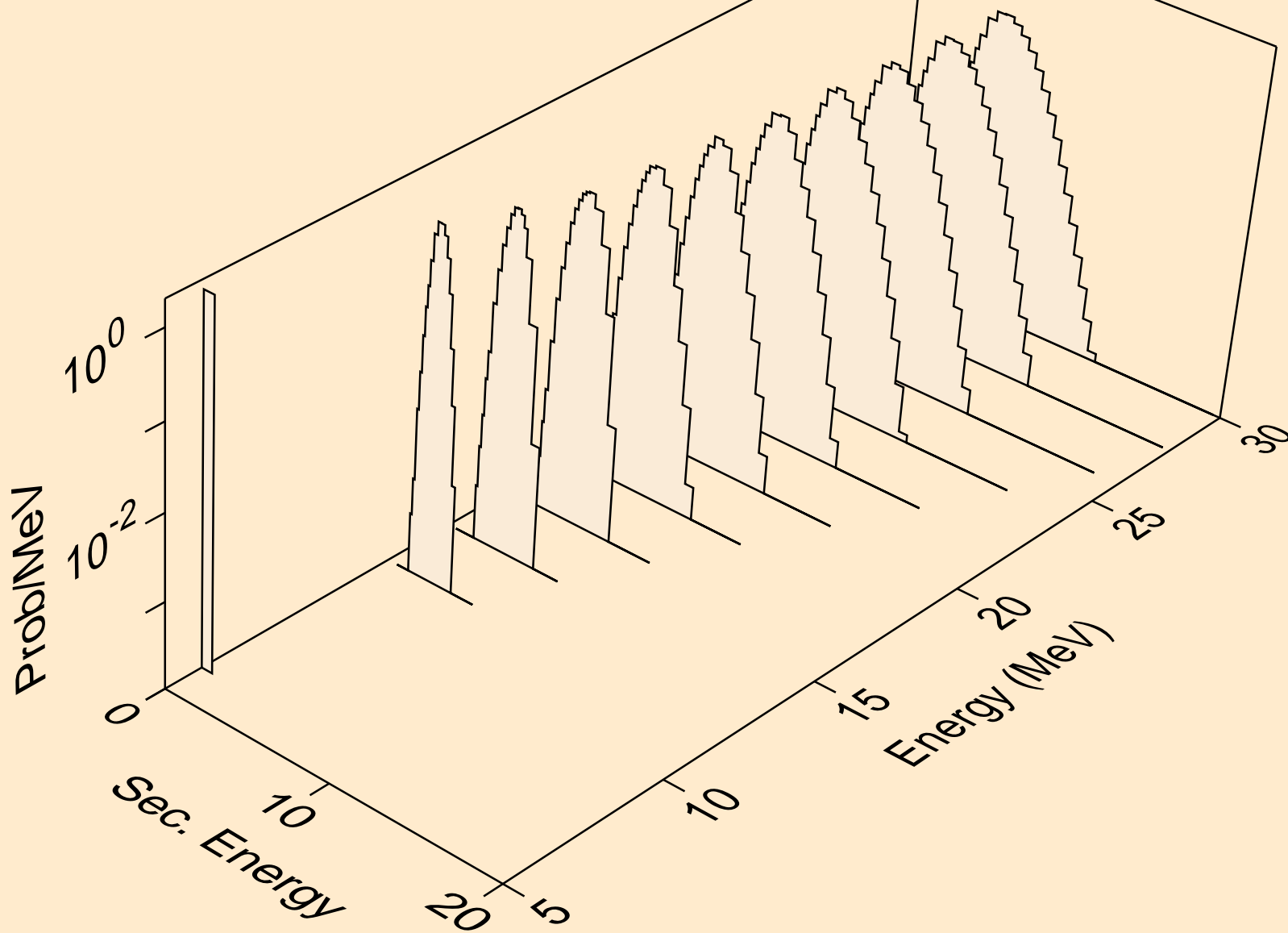
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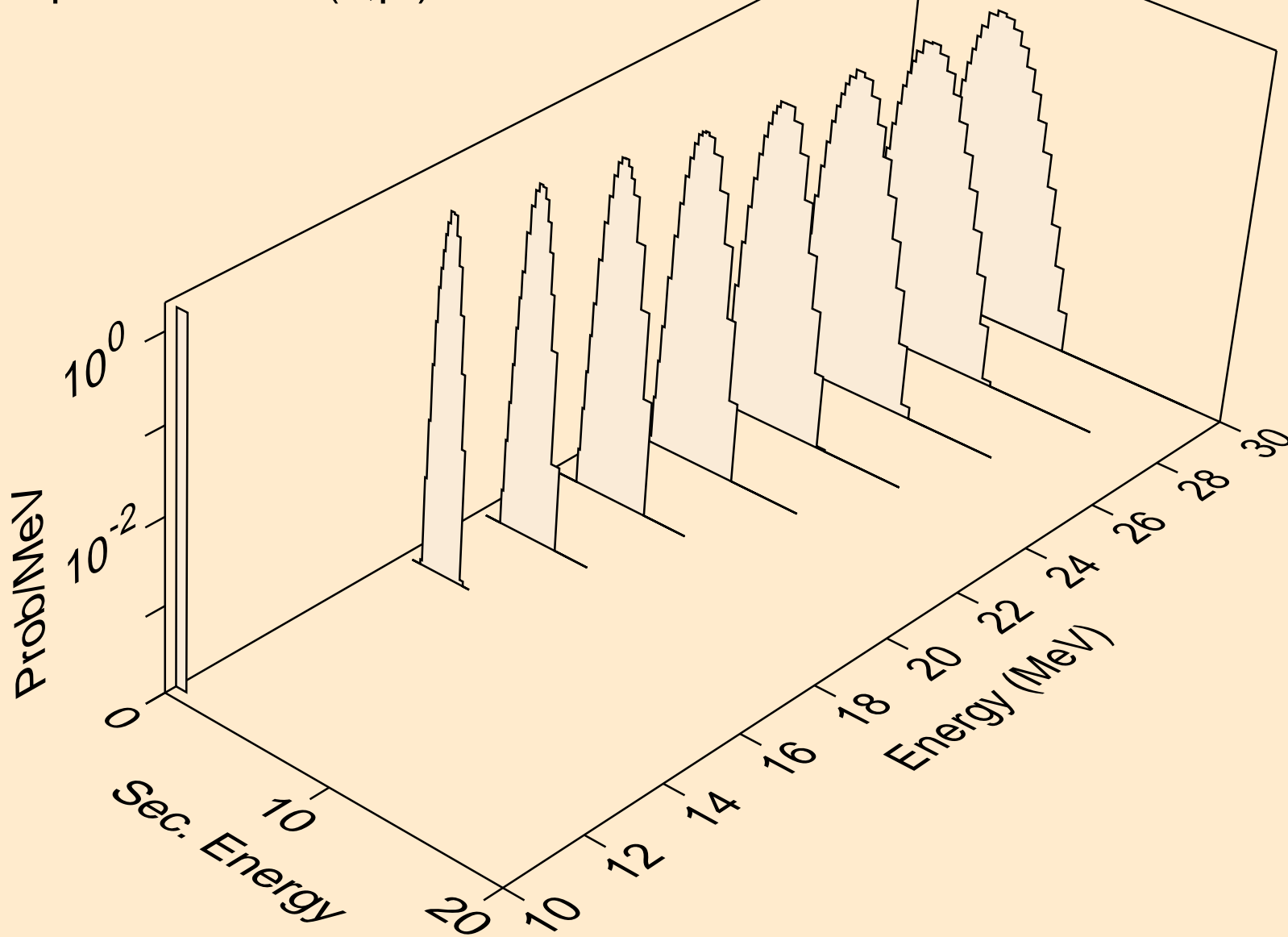
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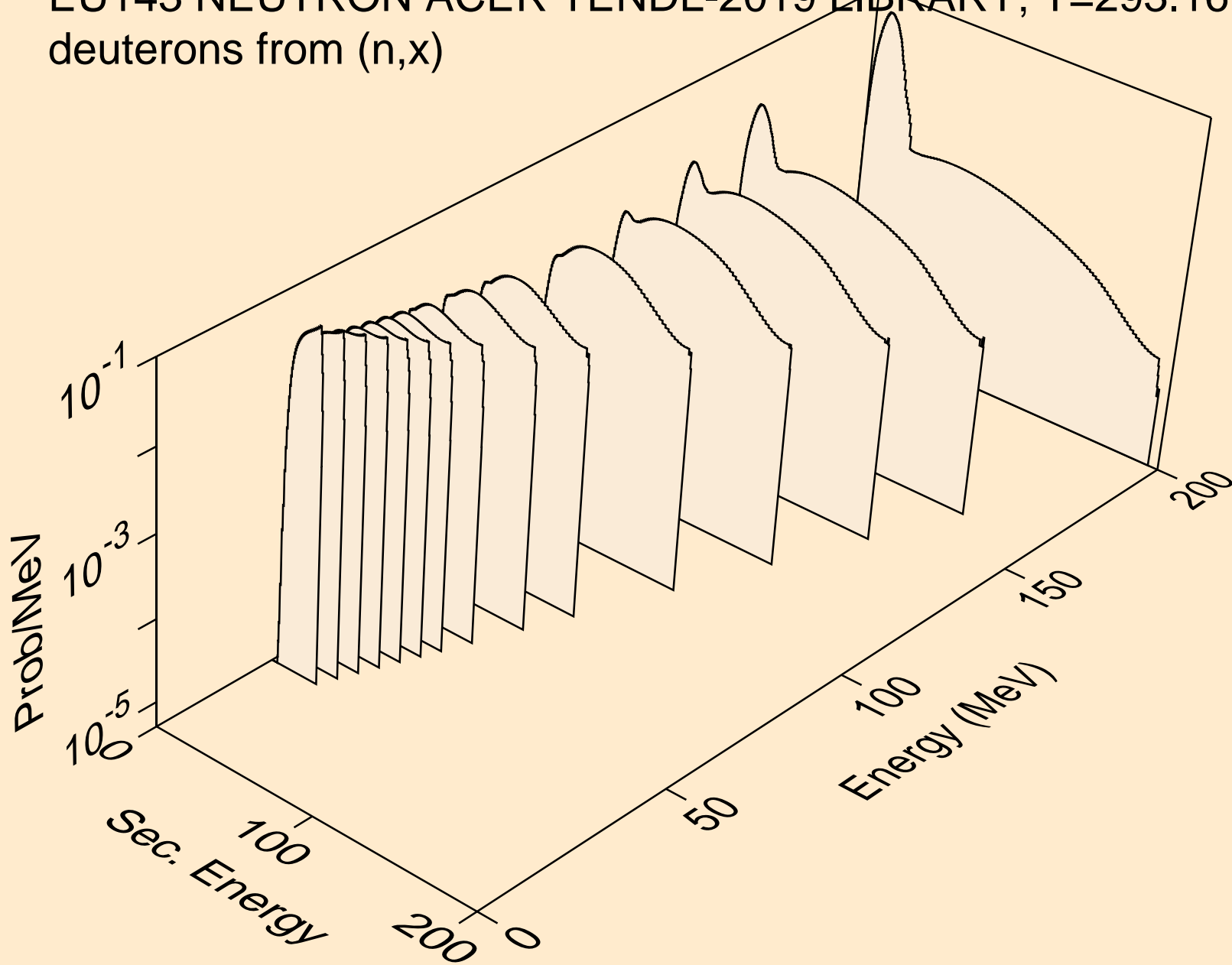
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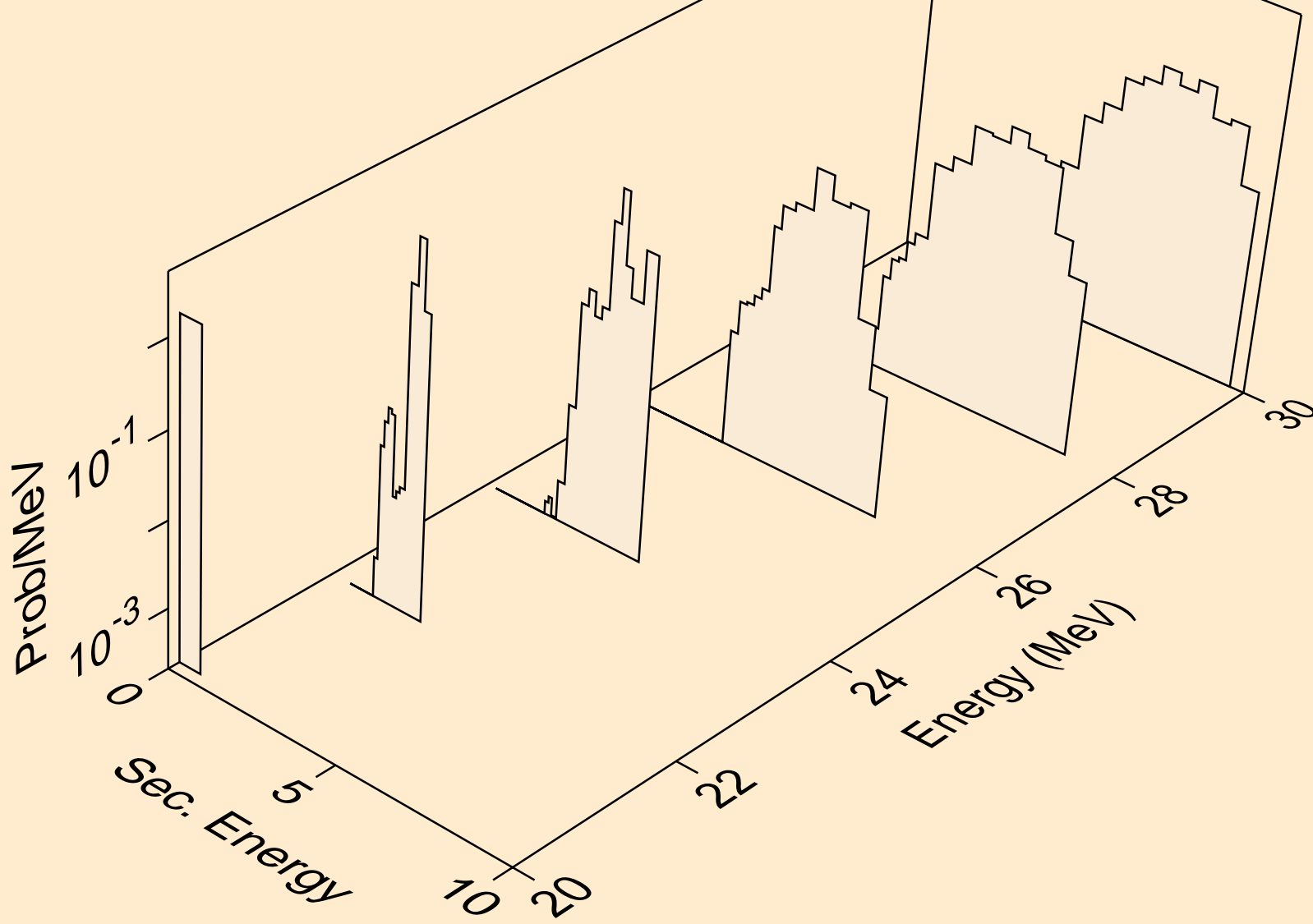
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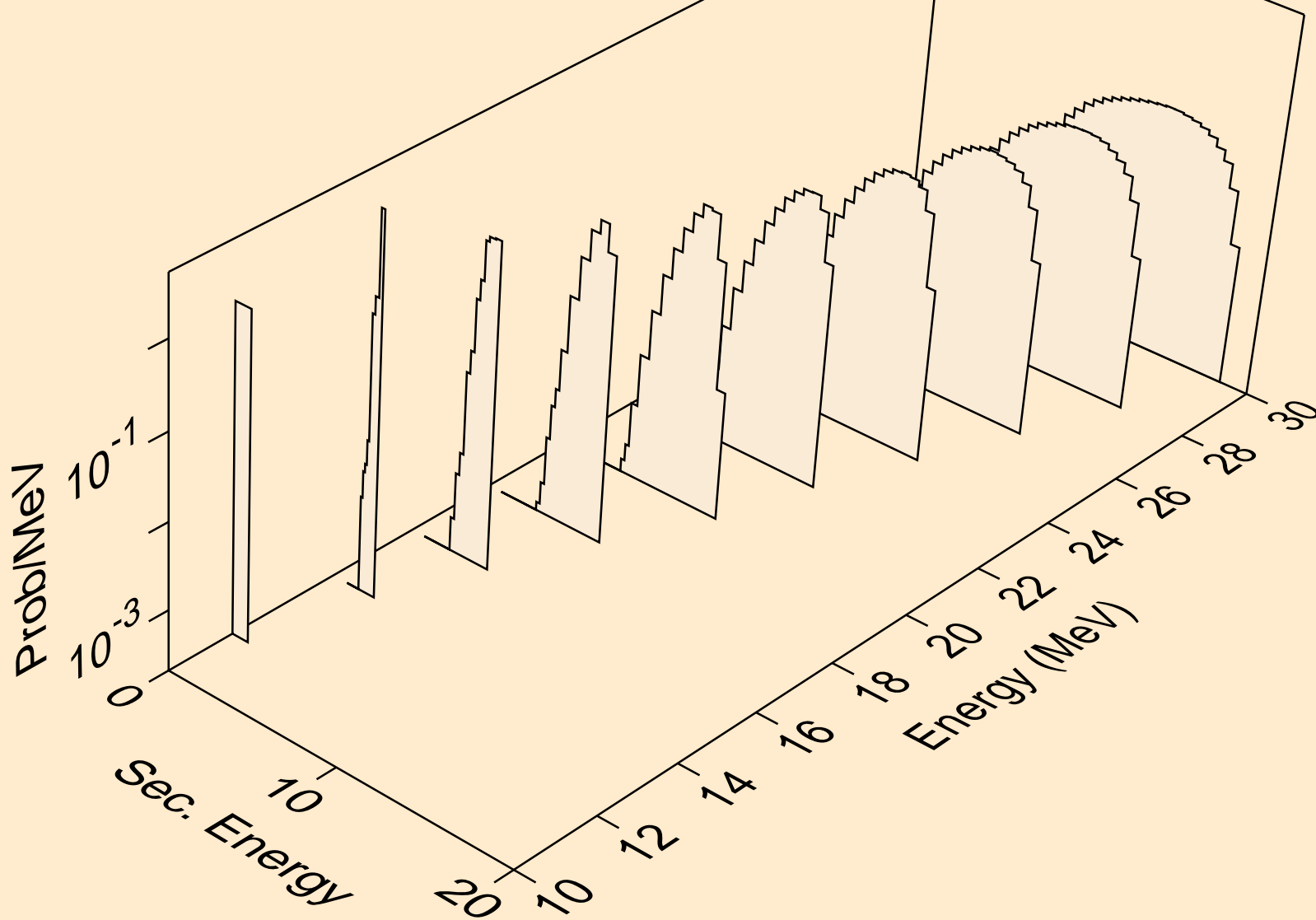
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deuterons from (n,x)



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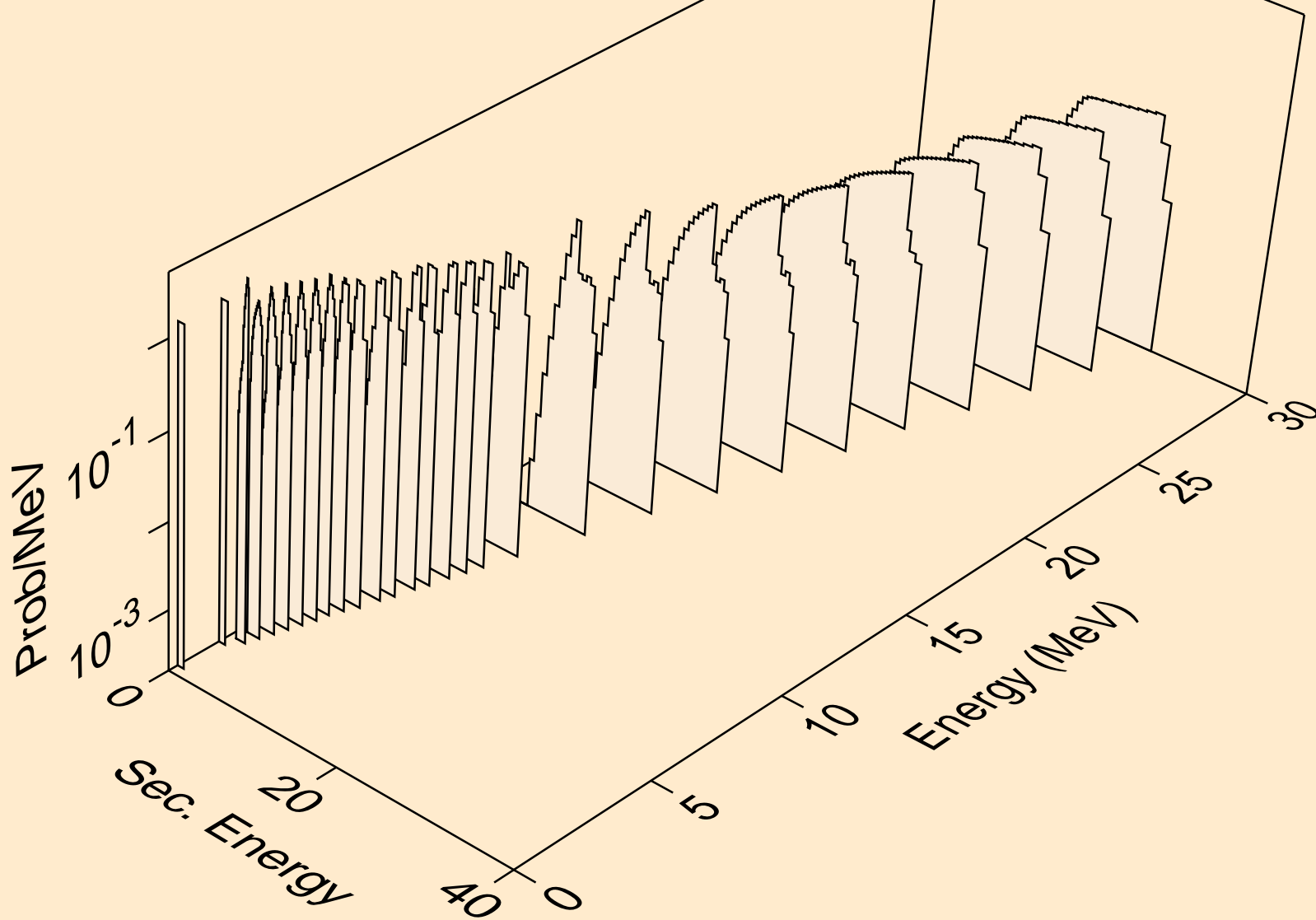


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deuterons from (n,n\*)d

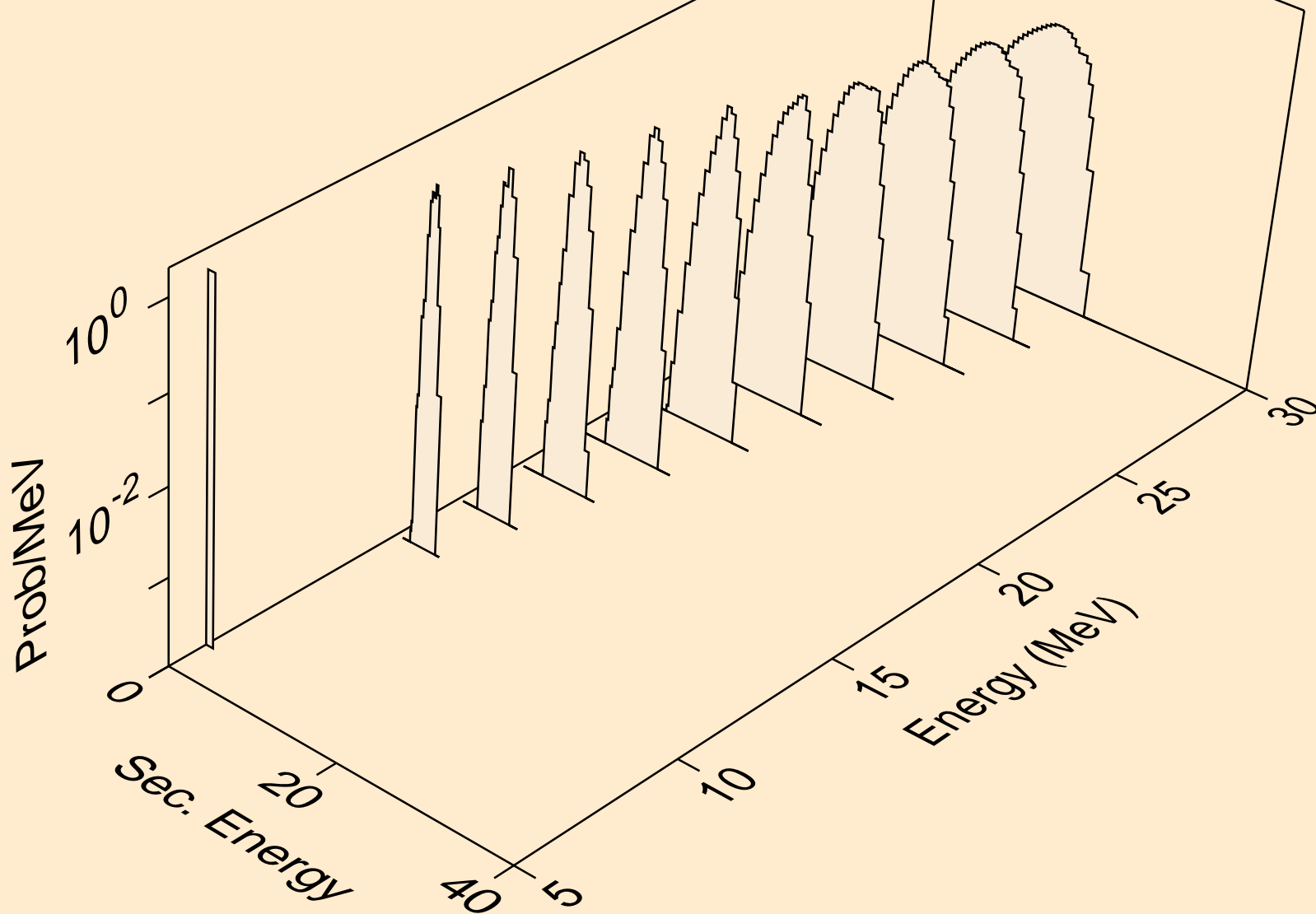




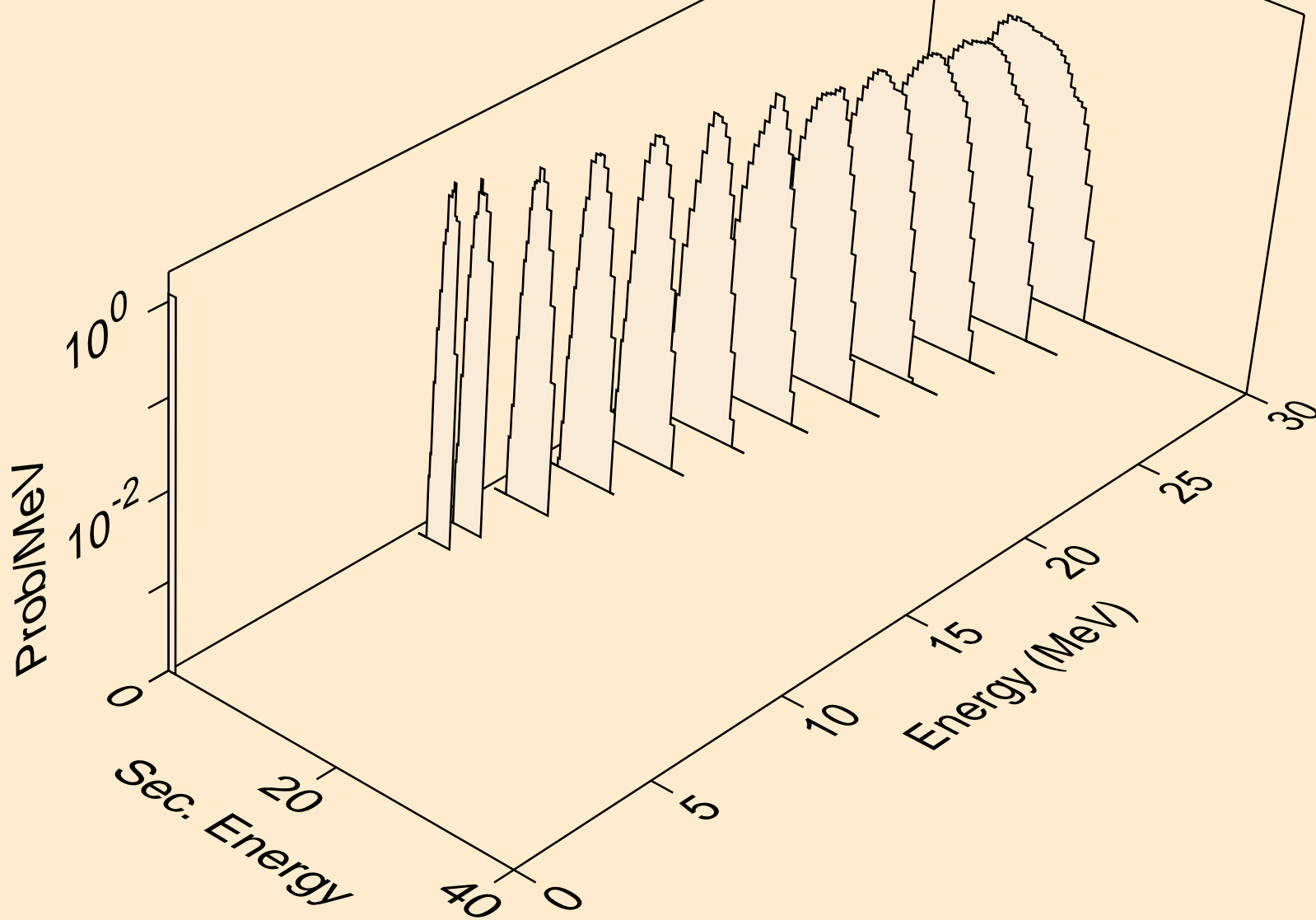
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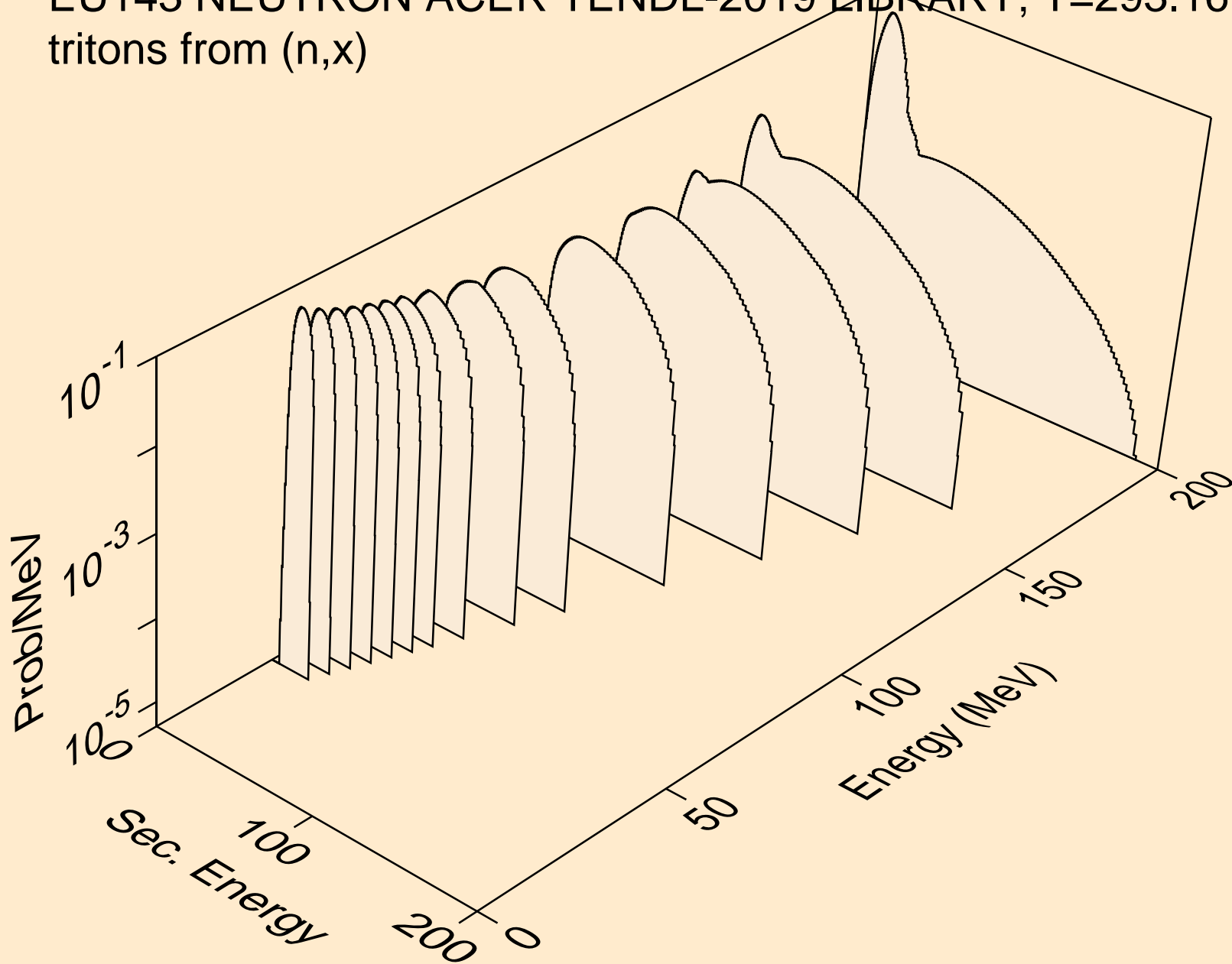
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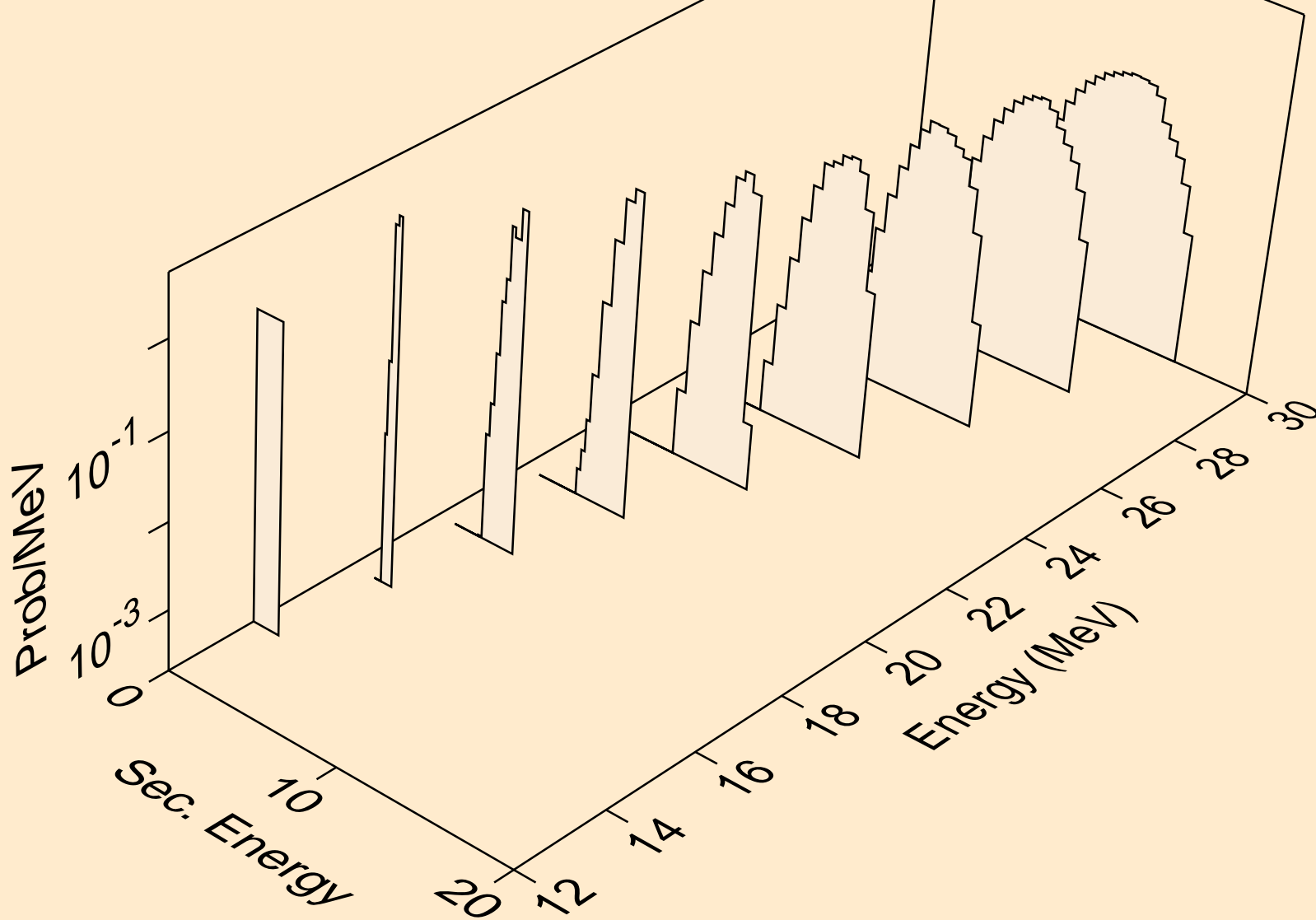
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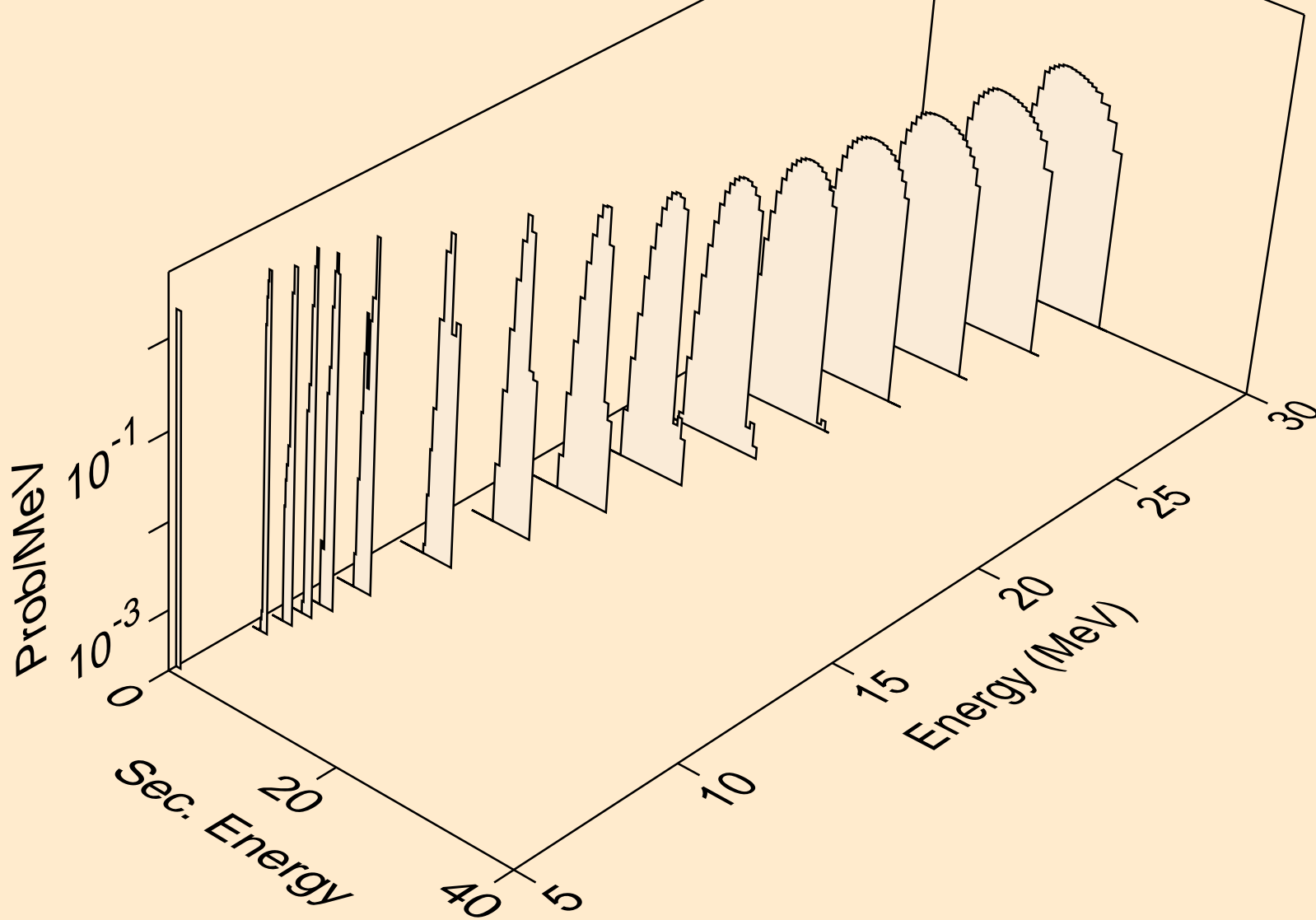
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tritons from (n,x)



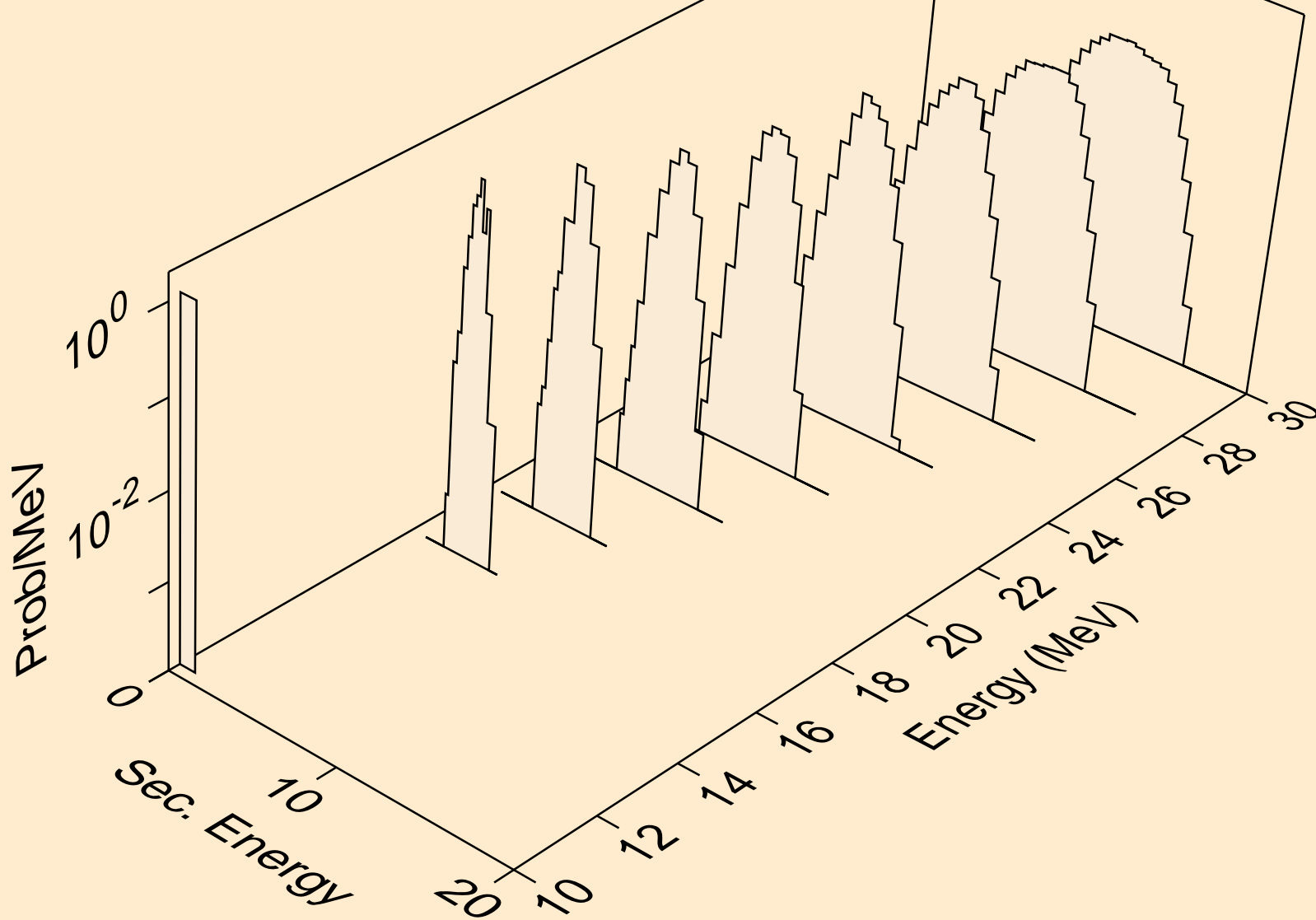
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tritons from (n,n\*)t



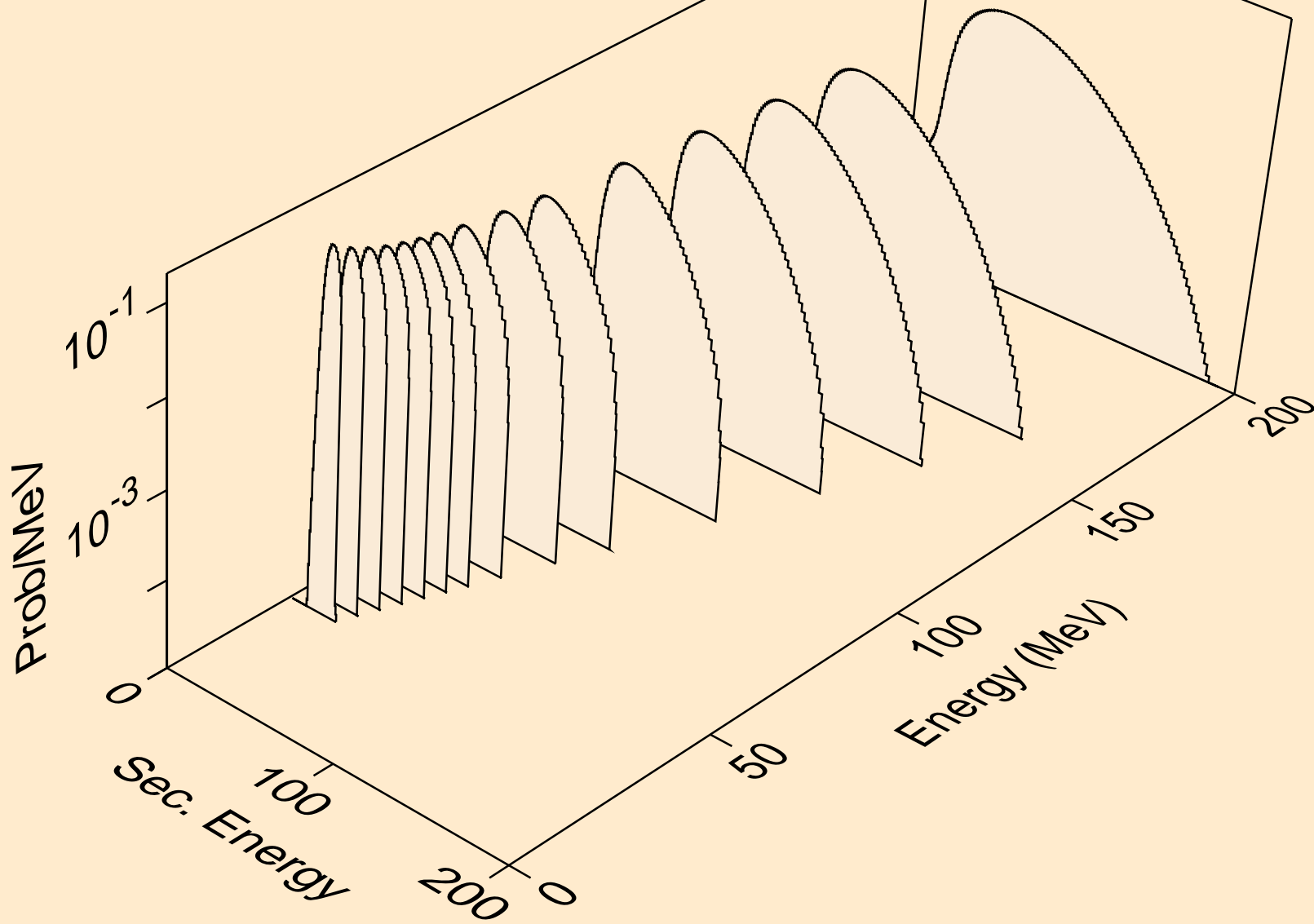
EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
tritons from (n,t)



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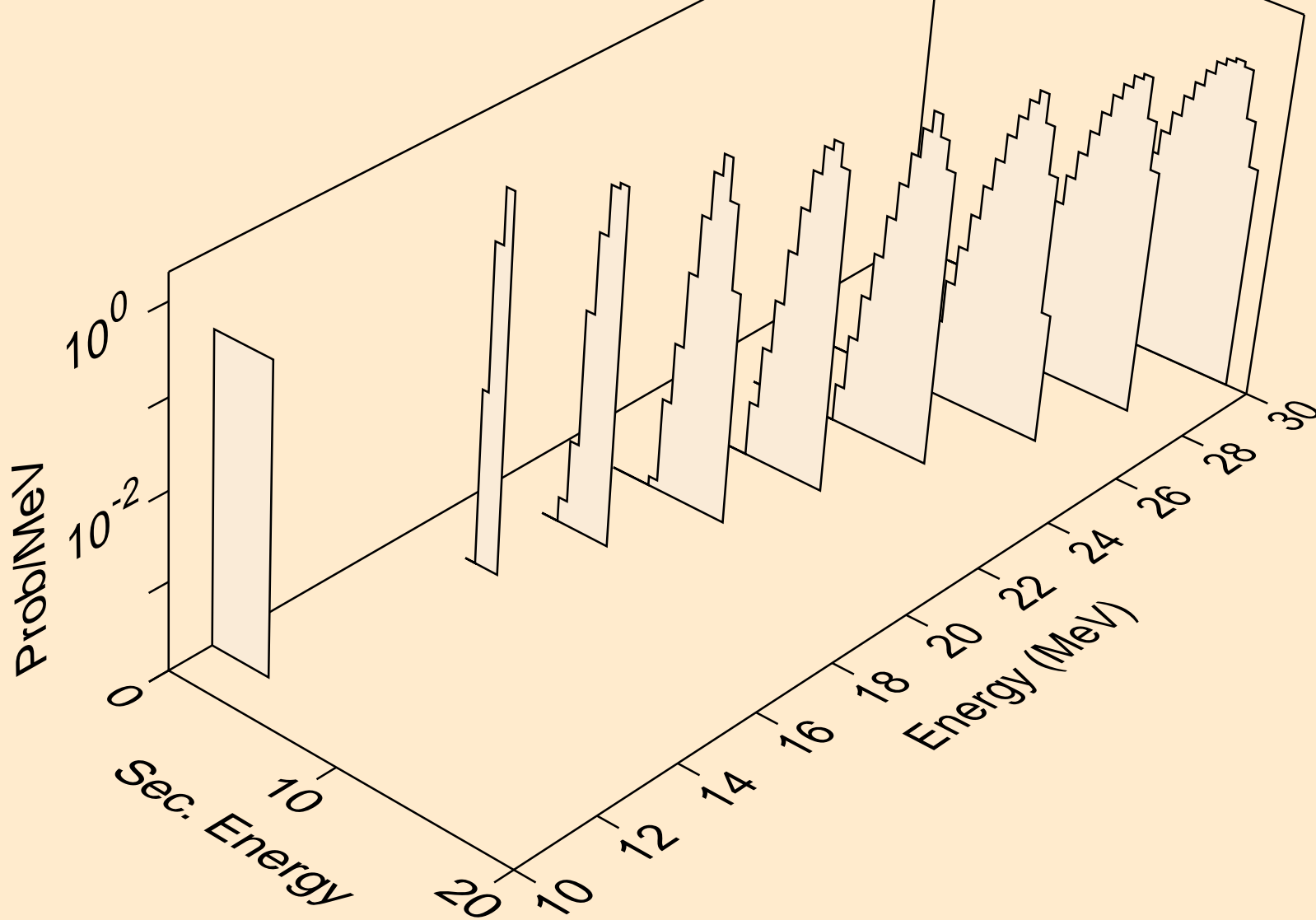


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he3s from (n,x)

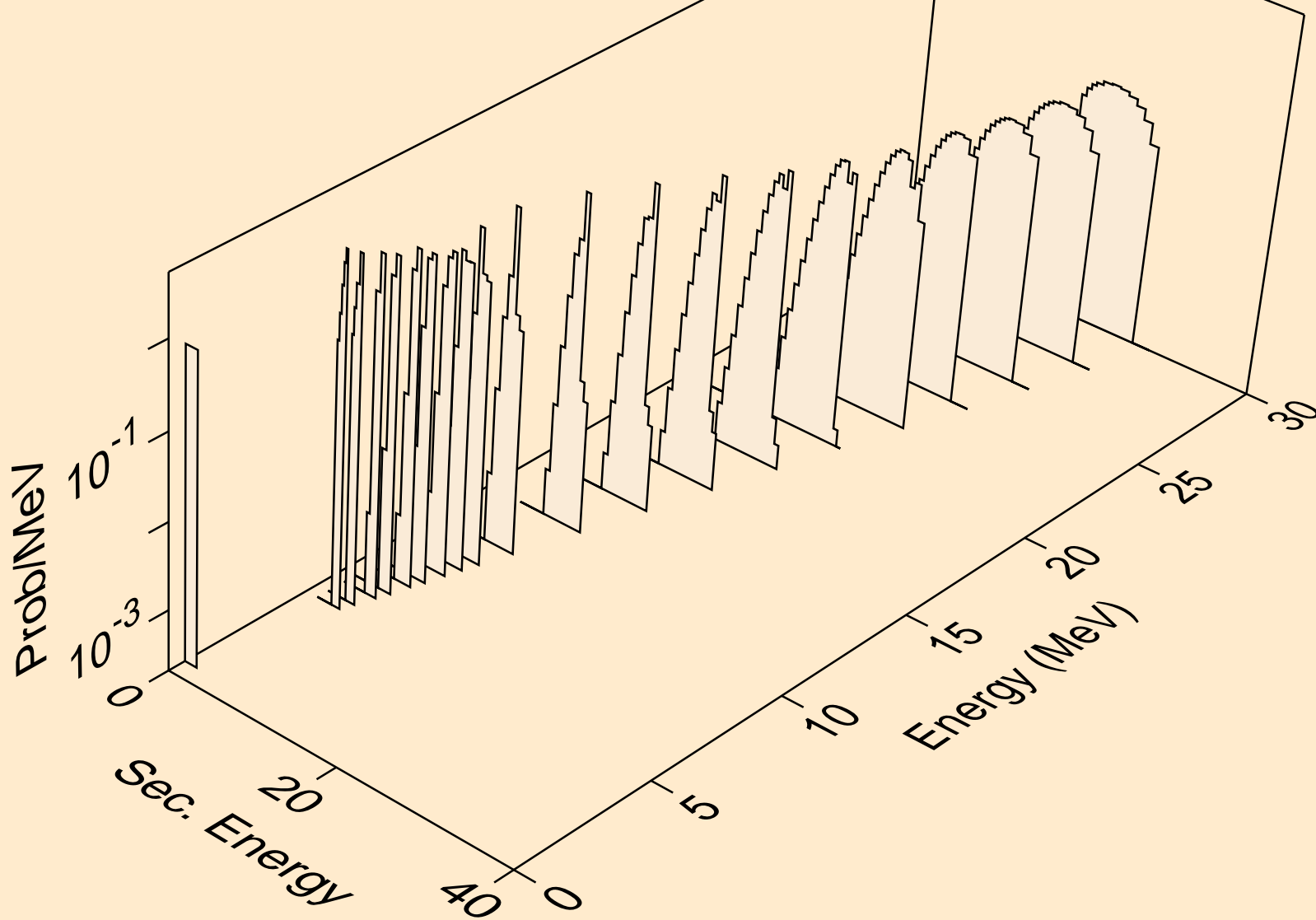




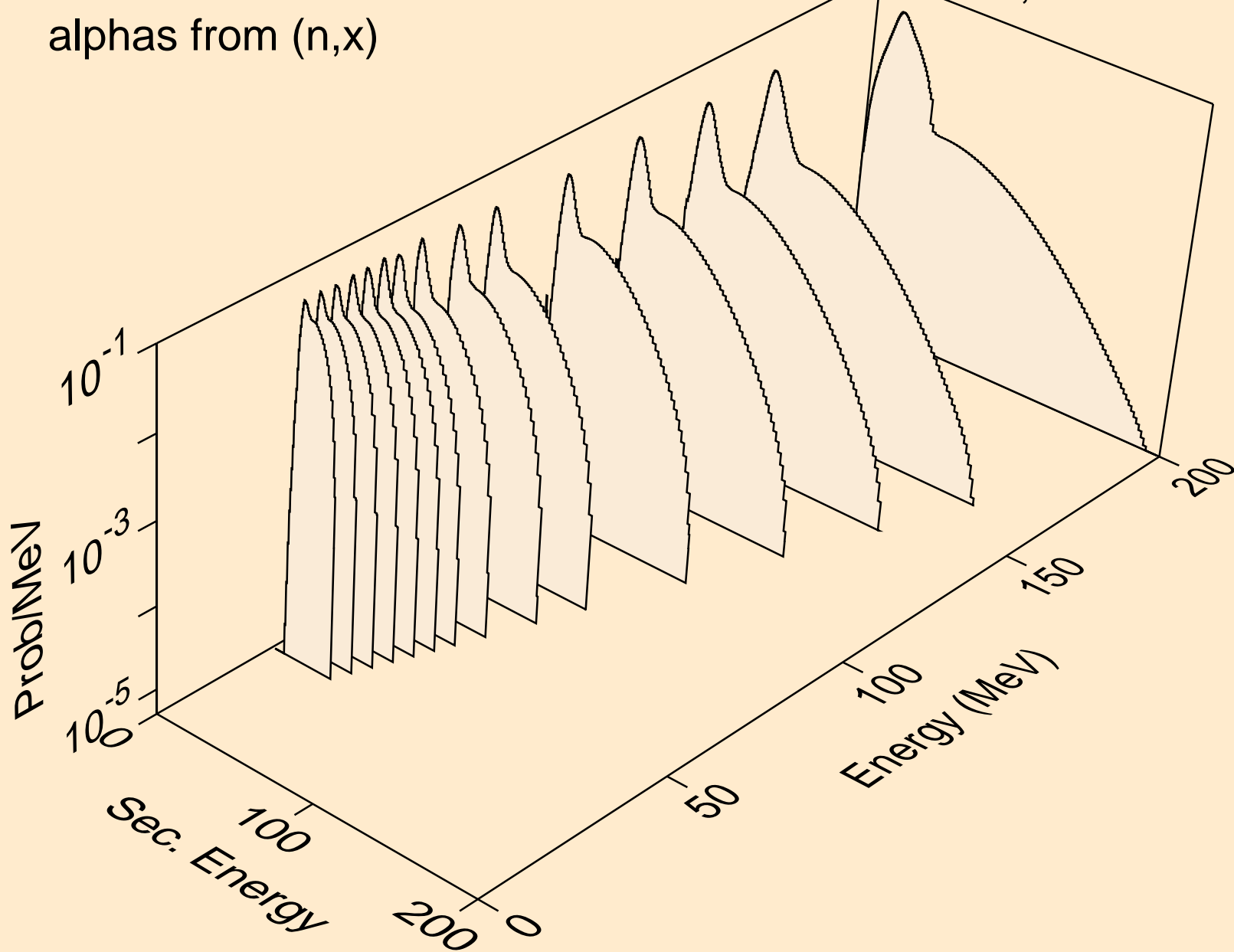
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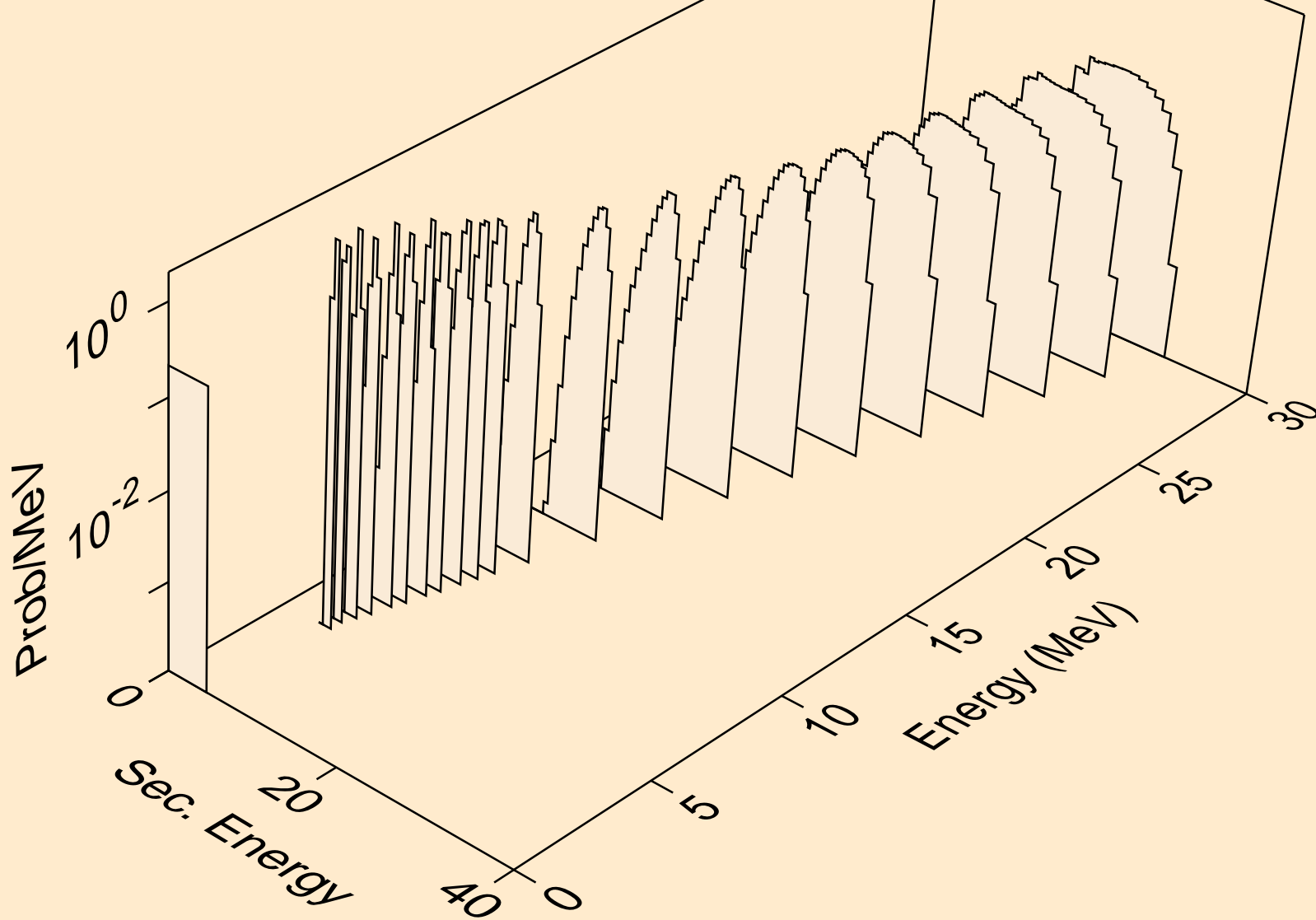
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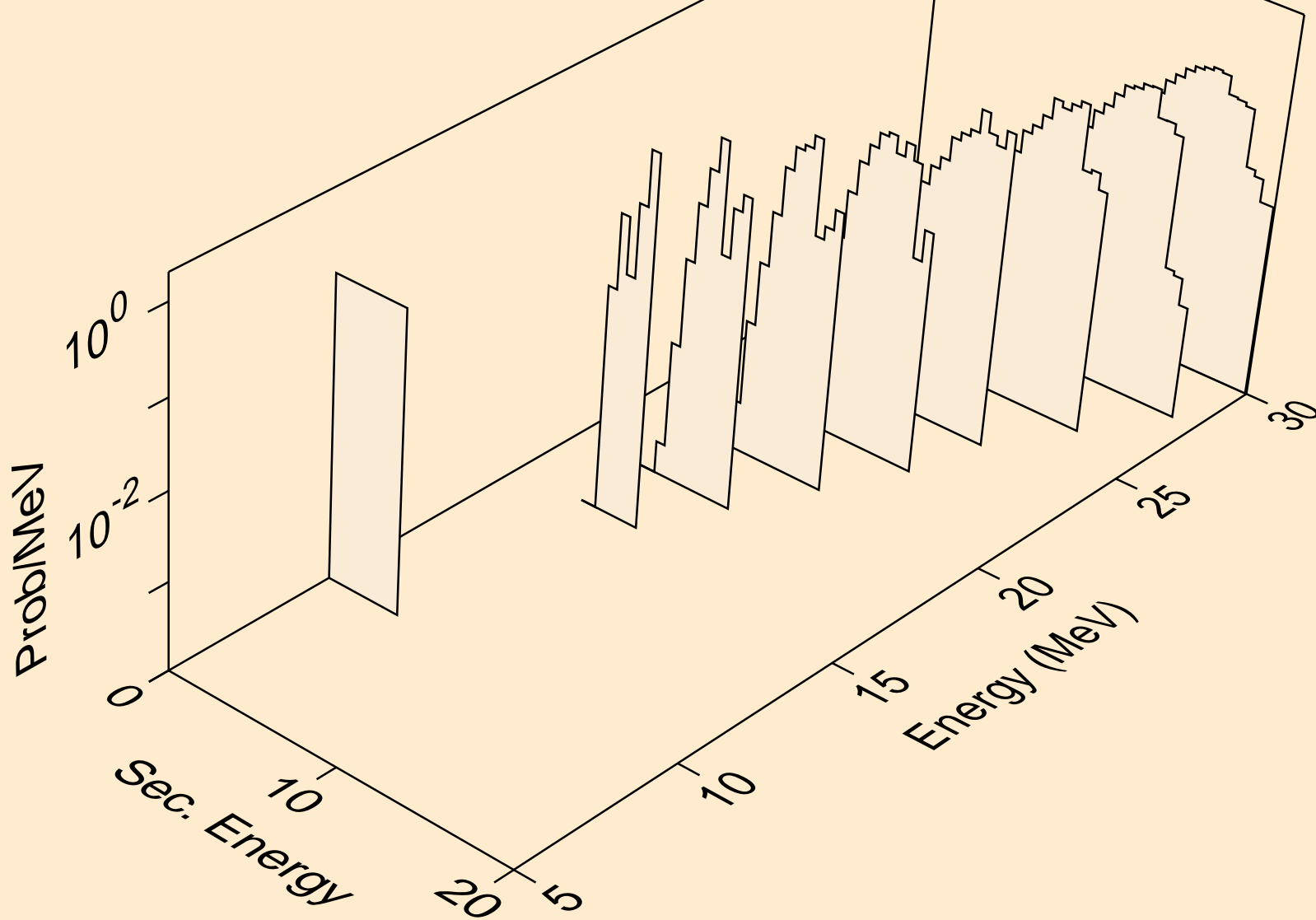
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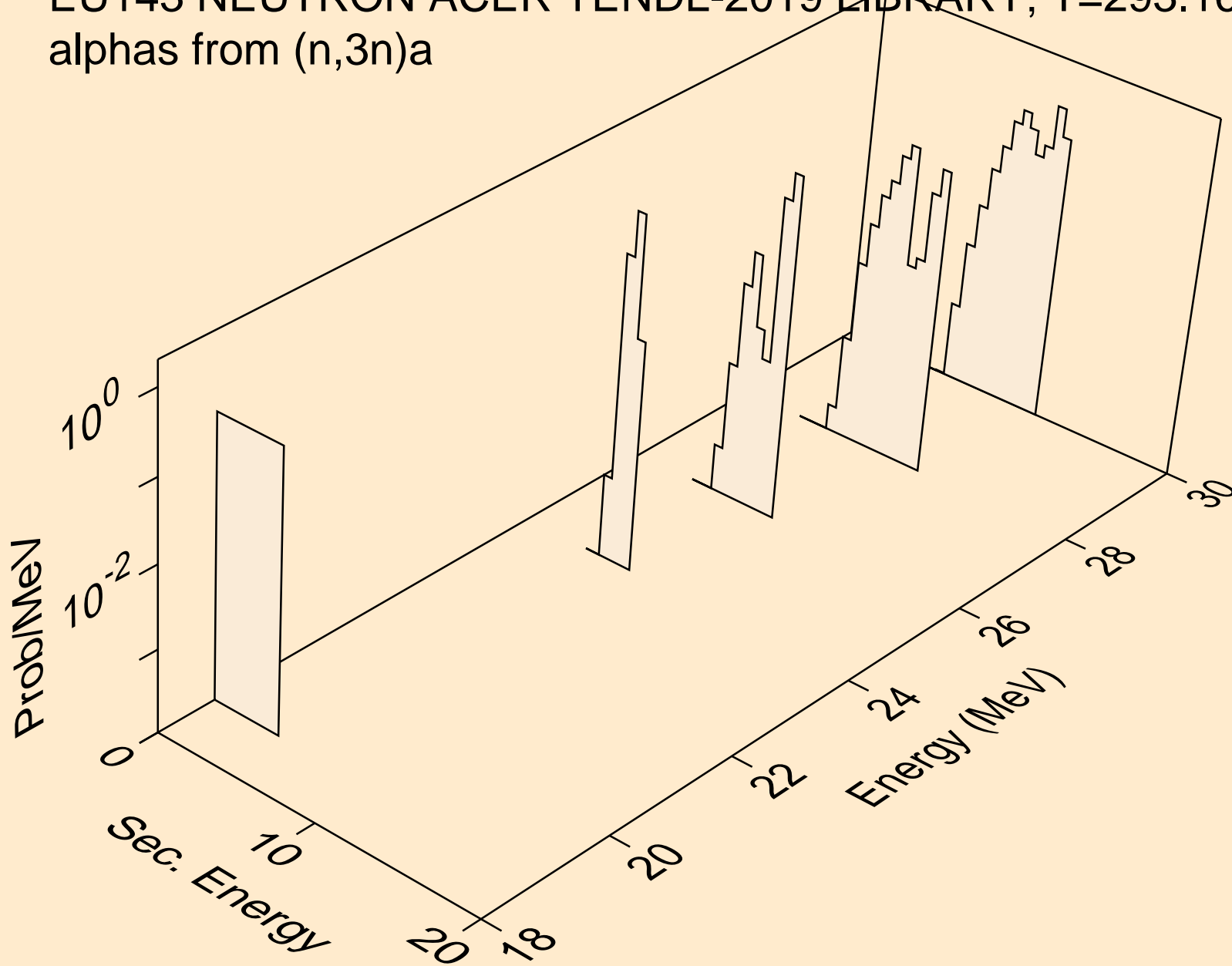
EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,n\*)a



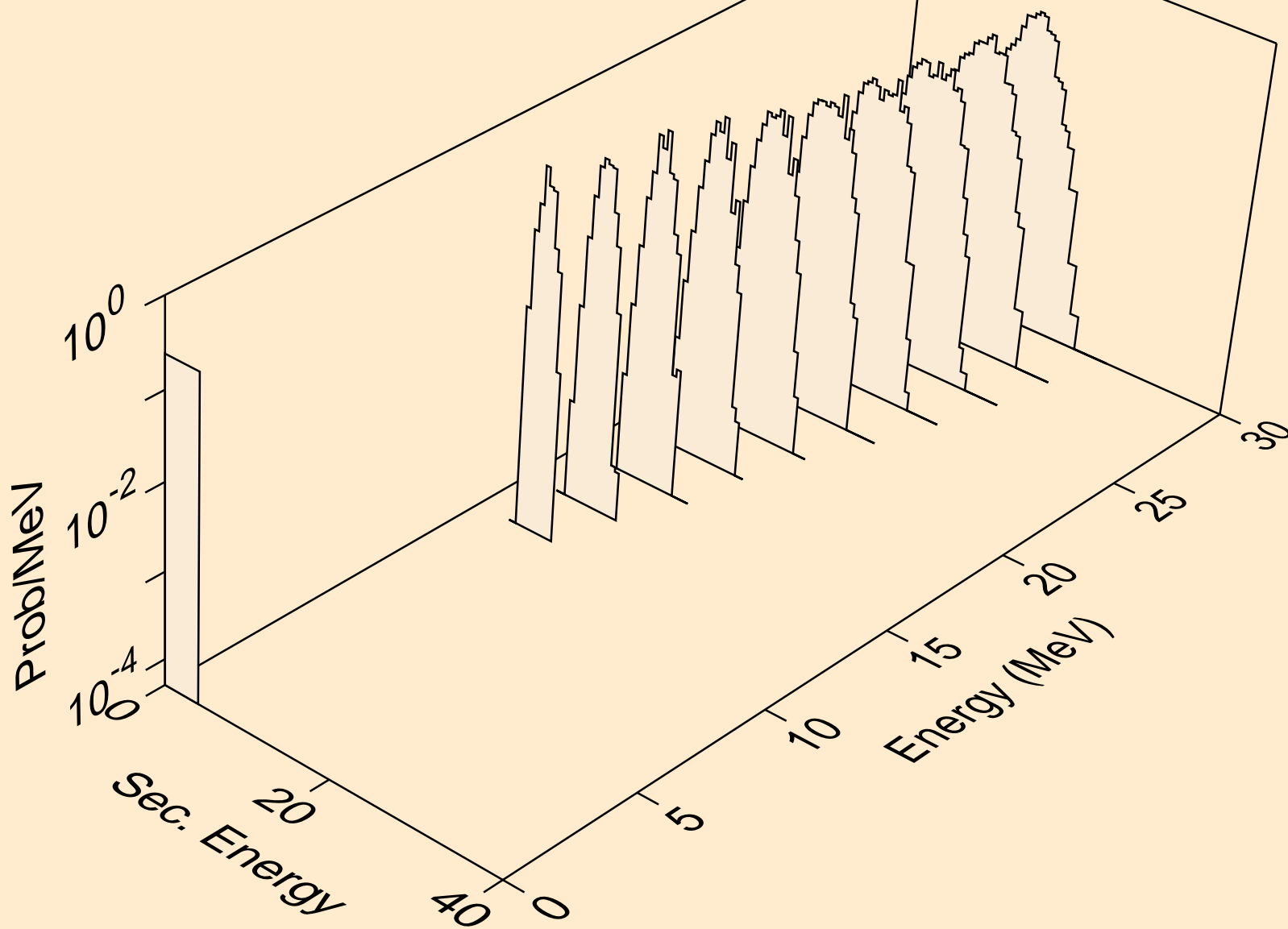
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alphas from (n,2n)a



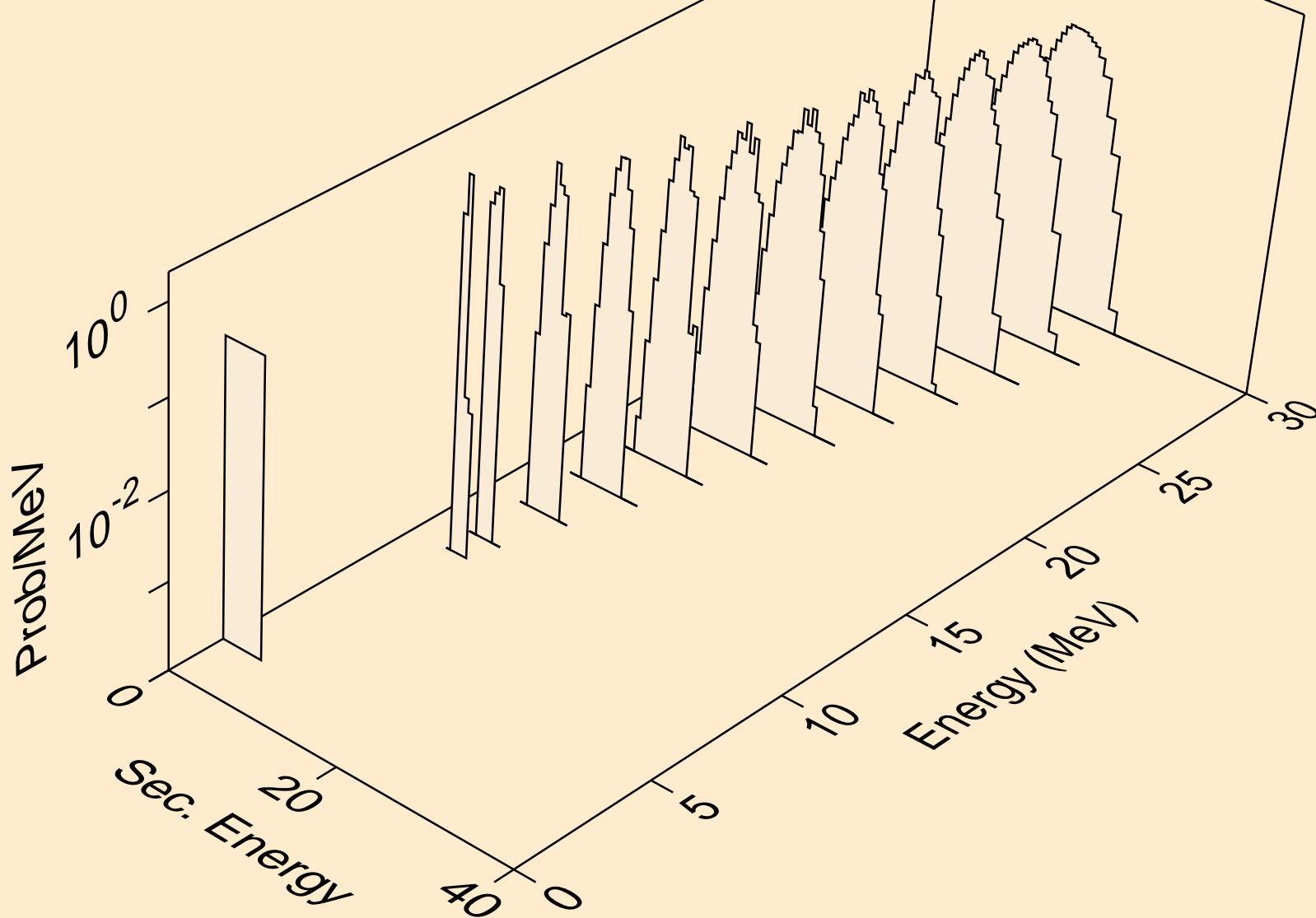
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EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
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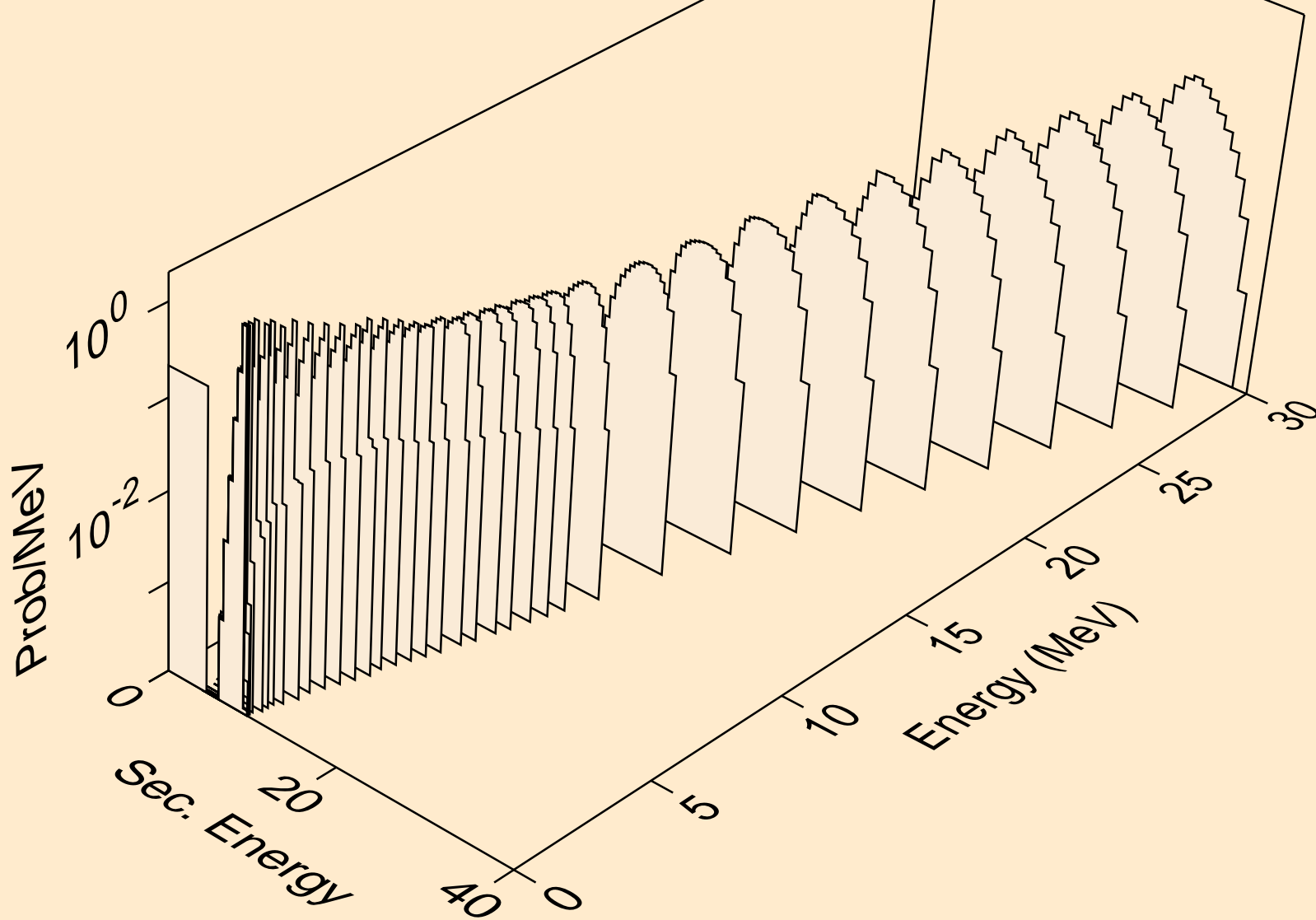


EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,npa)

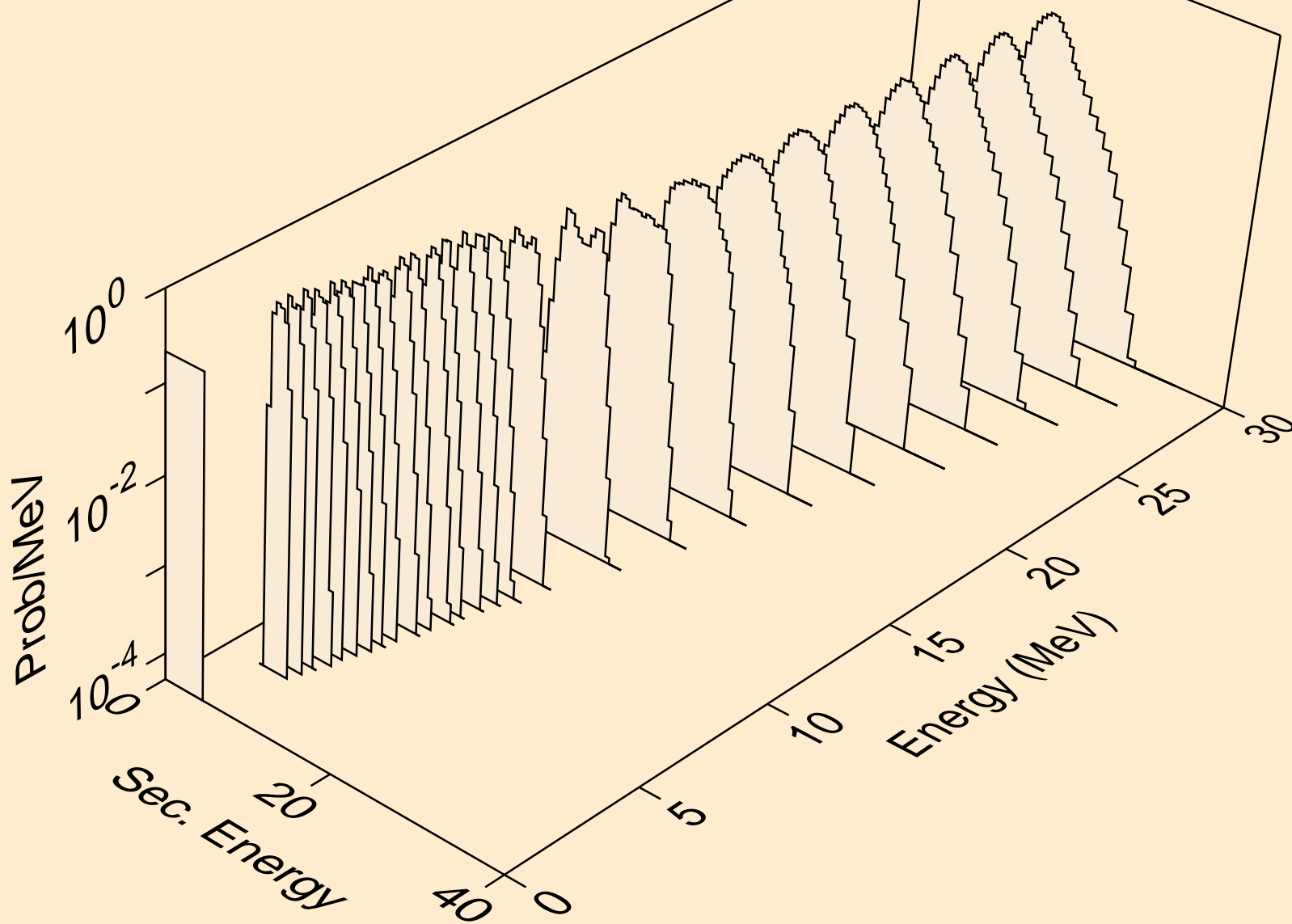




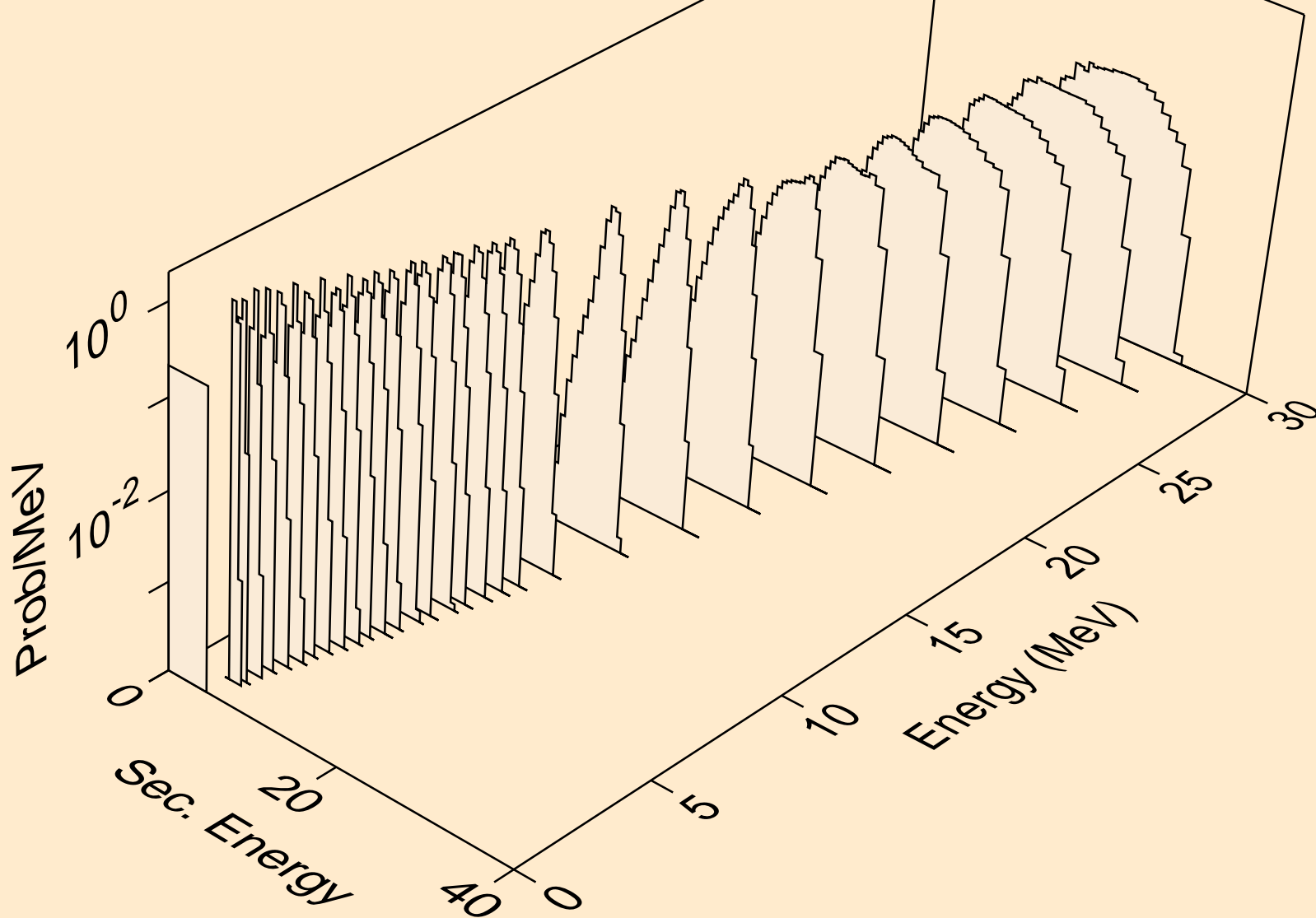
EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,a)



EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,2a)



EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,pa)



EU143 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,da)

